SERVICE MANUAL

2600

marantz

model 2600

Stereophonic Receiver

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Brookvale 2100 N.S.W.
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Marantz Japan, Inc.
3622 Kamitsuruma
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Superscope Europe, S.A.
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Marantz France
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92600 Asnieres
Hauts-de-Seine
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Marantz Audio U.K. Ltd.
London Road, 203
Staines
Middlesex
England

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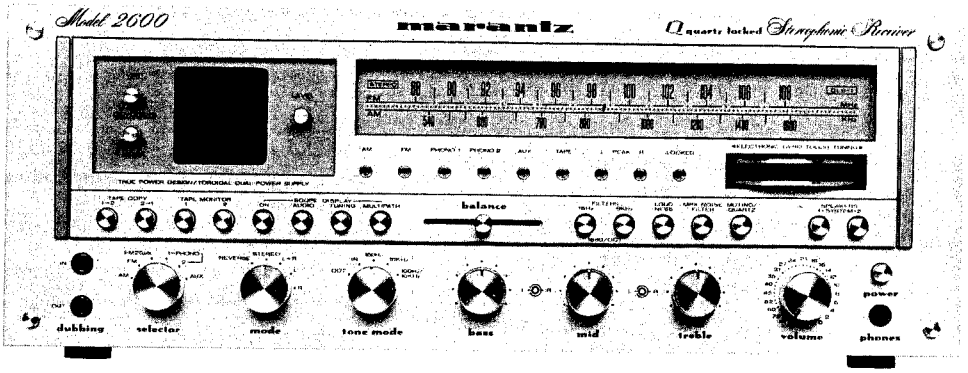
MODEL 2600 AM/FM STEREOPHONIC RECEIVER



INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2600 Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operation of the receiver.

The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

1. P.W. BOARDS

As can be seen from the circuit diagram the chassis of Model 2600 consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1. FM Front End . . . . . mounted on P.W. Board P100
2. AM Tuner, FM IF & MPX Stereo Decoder . . mounted on P.W. Board P200
3. FM Noise Amp . . . . . mounted on P.W. Board PB00
4. FM Buffer Amp . . . . . mounted on P.W. Board PC01
5. Phono Amp & Selector Switch . . . . . mounted on P.W. Board P400
6. Main Amp . . . . . mounted on P.W. Board P700
7. Power Supply . . . . . mounted on P.W. Board P800
8. Pre & Tone Amp . . . . mounted on P.W. Board PE01
9. Dolby NR Socket . . . . mounted on P.W. Board PK01
10. Audio Muting . . . . . mounted on P.W. Board PN01
11. Buffer Amp for Scope Input . . . . . mounted on P.W. Board PD01
12. Tape Copy, Tape Monitor & Scope Display Switches . . . . mounted on P.W. Board PS01
13. Filter Amp . . . . . mounted on P.W. Board PT01
14. Dubbing In & Out Jacks . . . . . mounted on P.W. Board PU01
15. Speaker System Switches & Attenuator . . . . . mounted on P.W. Board PW01
16. Function Indicator . . mounted on P.W. Board PY01
17. Dial Lamp . . . . . mounted on P.W. Board PZ01
18. Buffer Amp . . . . . mounted on P.W. Board PR50
19. Scope Amp . . . . . mounted on P.W. Board P900
20. Peak Indicator & Soft Start . . . . . mounted on P.W. Board PX01
21. Power Transistor Connection . . . . . mounted on P.W. Board PM01
22. Quartz Lock . . . . . mounted on P.W. Board PC50
23. Touch Senser . . . . . mounted on P.W. Board PK51

2. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model 2600 Receiver.

Item	Manufacturer and Model No.	Use
AM Signal Generator		Signal source for AM alignment
Test Loop		Use with AM Signal Generator
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)
Circuit Tester		Trouble shooting
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier
AC Ammeter	Commercial Grade (1-30A)	Monitors amplifier output under short circuit condition
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B–10A	Adjusts level of primary power to amplifier
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup
Output Load (8 ohms, ±0.5%, 500 W)	Commercial Grade	Provides 8-ohm load for amplifier output termination
Output Load (4 ohms, ±0.5%, 600 W)	Commercial Grade	Provides 4-ohm load for amplifier output termination

3. AM ALIGNMENT PROCEDURES

3.1 AM IF ALIGNMENT

1. Connect a sweep generator to the J229 and an alignment scope to the test point B.
2. Rotate each core of IF transformers L153 and L154 for maximum height and flat top symmetrical response.

3.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT

1. Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L152 for maximum audio output.
2. Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.
3. Repeat steps 1 and 2 until no further adjustment is necessary.
4. Set the generator to 600 kHz and tune the receiver to the same frequency and adjust a slug core of AM ferrite-rod antenna L002 and RF coil L151 for maximum output.
5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust both trimming capacitors of antenna and RF tuned circuit for maximum output.
6. Repeat steps 4 and 5 until no further adjustment is necessary.

NOTE: During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

3.3 AM SIGNAL STRENGTH DISPLAY ADJUSTMENT

Set an AM signal generator to 1000 kHz at 100 dB/m, and adjust R163 so that the spot may meet upper mark.

4. FM ALIGNMENT PROCEDURES

4.1 FM FREQUENCY RANGE AND TRACKING ALIGNMENT

1. Connect an FM signal generator to the FM ANTENNA terminals and an oscilloscope and an audio distortion analyzer to the TAPE MONITOR OUT jacks on the rear panel.
2. Set the signal generator to 87.4 MHz and provide about 3 to 5 μV. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the core of

oscillator coil L106 to obtain maximum audio output.

3. Set the signal generator to 109 MHz and provide about 3 to 5 μV output. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C123 for maximum output.
4. Repeat steps 2 and 3 until no further adjustment is necessary.
5. Set the signal generator to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the antenna coil L101, RF coils L102, L103 and L104 and IF transformer L105 for minimum audio distortion.
6. Set the signal generator to 106 MHz and tune the receiver to the same frequency. Adjust the trimming capacitors CF01, CF02, CF03 and CF04 for minimum distortion.
7. Repeat steps 5 and 6 until no further adjustment is necessary.
8. Connect a VTVM (at DC 1 V range) across the J204 and J205. Adjust the secondary core (upper) of discriminator transformer L201 so that the VTVM indicates null reading (zero reading) at no signal. Set the FM signal generator to 98 MHz and increase its output level 1 kμV and tune the receiver to the same frequency so that the VTVM gives null reading. Adjust the primary core (lower) of L201 for minimum distortion. (Scope display can, of course, be used as tuning indicator instead of the VTVM, if the scope unit has been correctly adjusted as instructed in the "Scope Display Adjustment".)
9. Set the signal generator to 98 MHz at 100 kμV, and adjust R278 so that the signal strength indicator spot just reaches upper mark.

4.2 STEREO SEPARATION ALIGNMENT

1. Set the FM signal generator to provide 1 kμV at 98 MHz. Tune the receiver to the same frequency so that the center tuning indicator spot indicates its center.
2. Turn the signal generator modulation off (with the pilot signal turned off), connect a frequency counter to test point J238, and adjust R310 so that the frequency counter may precisely read 19 kHz.
3. Modulate the signal generator with stereo composite signal consisting only of subchannel signal (of course a pilot signal must be included).
4. Adjust the trimming resistor R319 for maximum and same separation in both channels.

4.3 MUTING CIRCUIT ALIGNMENT

1. Set the FM signal generator to provide 6 μV at 98 MHz and tune the receiver to the same frequency correctly.
2. Depress the FM MUTING pushswitch. Set R001 to MIN position (counterclockwise). Adjust R330 until the muting circuit is activated to produce output for exactly 6 μV input.
3. In turn increase the FM signal generator output up to 50 μV.
4. Set R001 to MAX position (clockwise). Adjust R347 until the muting circuit is activated to produce output for exactly 50 μV input.
5. Turn R001 from MIN to MAX to assure the muting threshold level can change in the range of 6 to 50 μV.
6. Adjust R001 until the muting threshold level is 12.5 V. Then, increase the FM signal generator output up to 1 kμV and shift its frequency up and down. Note both up- and down-shifted frequencies at which undesirable audio side responses are muted out. Adjust R280 until the muting circuit is activated when the oscilloscope trace deflects 10 to 20 mm.
7. Turn on QUARTZ Lock pushswitch and observe the QUARTZ LED which synchronize with the muting circuit.

4.4 DOLBY FM TAPE OUTPUT SETTING

1. Set the modulation of FM signal generator to 400 Hz, 50% (±37.5 kHz Dev.).
2. Set the signal generator to provide 1 kμV at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center.
3. Set the SELECTOR switch to the FM 25 μS position. Set the trimming resistors RC01 and RC02 so that the output of the TAPE MONITOR OUT jacks R and L become 580 mV at VTVM.

5. AUDIO ADJUSTMENT

1. Voltage adjustment
   Connect a DC voltmeter across the pins 4 and 3 on J805. Adjust the trimming resistor R819 until the DC voltmeter reads 32 V.
2. Main Amplifier DC off-set alignment
   Connect a DC voltmeter with 0.5 or 1 V range between the speaker terminals and adjust the trimming resistor R760 for "zero" DC output on the meter. Repeat the same procedure for the other channel.

NOTE: **During this alignment no load should be connected to the speaker terminals.**

3. Idle current adjustment
   Connect a DC voltmeter (in 50 mV range) across TP1 and TP2 on JX01. Adjust R761 on the P.W. board on the left side of the tunnel heatsink until the voltmeter reads 25 mV (32 mA). In turn, connect the voltmeter across TP3 and TP4 on JX02 and similarly, adjust R716 on the P.W. board on the right side of the tunnel heatsink until the voltmeter reads 25 mV (32 mA).
4. Check DC off-set voltage aligned in the procedure 3 and if any DC output is observed on the DC voltmeter, adjust the R760 again for "zero" output.

CAUTION: CONTINUOUS POWER OUTPUT TESTS.
Continuous sine wave tests at high audio power levels impose a maximum loading condition for the powersupply, particularly when testing with 4 ohm output loads, and far exceeds power supply loading encountered with program materials. A primary line fuse has been selected for the Model 2600 which will open if the following 4 ohm testing periods are exceeded:

A. At rated power of 400 watts per channel.
Testing period- 20 minutes max.

B. At power levels above 400 watts per channel.
Individual tests- 1 minute max.

6. SCOPE DISPLAY ADJUSTMENT

1. Set the SELECTOR switch to the AUX position.
2. Set the SCOPE LEVEL and VOLUME controls to the FCCW position.
3. Depress the SCOPE DISPLAY ON and AUDIO push-switches in.
4. Adjust the CENTERING controls until the spot comes in the center of the small circle.
5. Adjust the BRIGHT control (R002) on the rear panel until the brightness becomes dark a little.
6. Adjust the FOCUS control so that the spot may become smaller and circular.
7. Turn the SCOPE LEVEL control to the FCW.
8. Connect a 150 mV, 1 kHz signal to the AUX INPUTS R jack and adjust R928 (H. GAIN) until the horizontal deflection is around 3 cm.
9. In turn, connect the same signal to the L jack and similarly, adjust R927 (V. GAIN) until the vertical deflection is around 3 cm.
10. Set the CENTERING control to the 12-o'clock position and adjust R925 (H. CENTER) until the spot comes in the horizontal deflection center.
11. Similarly, adjust R926 (V. CENTER) until the spot comes in the vertical deflection center.

6.1 AM TUNING DISPLAY ADJUSTMENT

1. Depress the SCOPE DISPLAY ON and TUNING push-switches. Set the SELECTOR switch to the AM position.
2. Adjust R931 until the spot comes in the center below the base line without tuning into a station.

6.2 FM TUNING DISPLAY ADJUSTMENT

1. Depress the scope DISPLAY ON and TUNING push-switches. Set the SELECTOR switch to the FM position.
2. Connect FM signal input of 100 kμV (98 MHz, 400 Hz, 30% mod.) to the FM ANTENNA terminals and adjust R278 so that the spot does not frame out.

6.3 FM MULTIPATH DISPLAY ADJUSTMENT

1. Adjust R280 to obtain full deflection of the trace within both side marks, applying FM signal (1 kμV, 400 Hz, 100% mod.) to the FM ANTENNA terminals.

7. VOLTAGE CONVERSION FOR EUROPEAN MODEL

The European version of the Model 2600 is equipped with a universal power transformer that may be adjusted to operate at 110 V, 120 V, 220 V, or 240 V AC at 50 to 60 Hz. To convert the unit to a different power source voltage, reposition conversion plug at shown in Figure 1.

CAUTION: DISCONNECT POWER SUPPLY CORD FROM AC OUTLET BEFORE CONVERTING VOLTAGE.

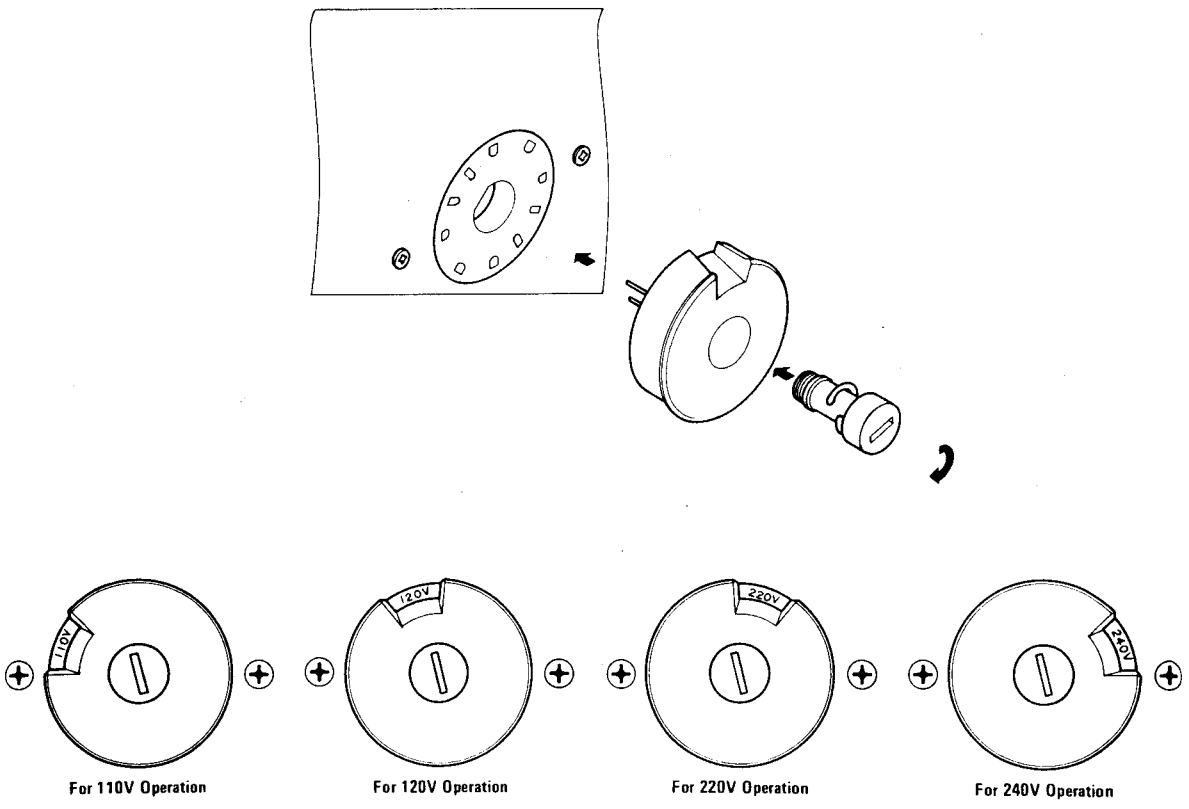


Figure 1. Voltage Conversion Chart

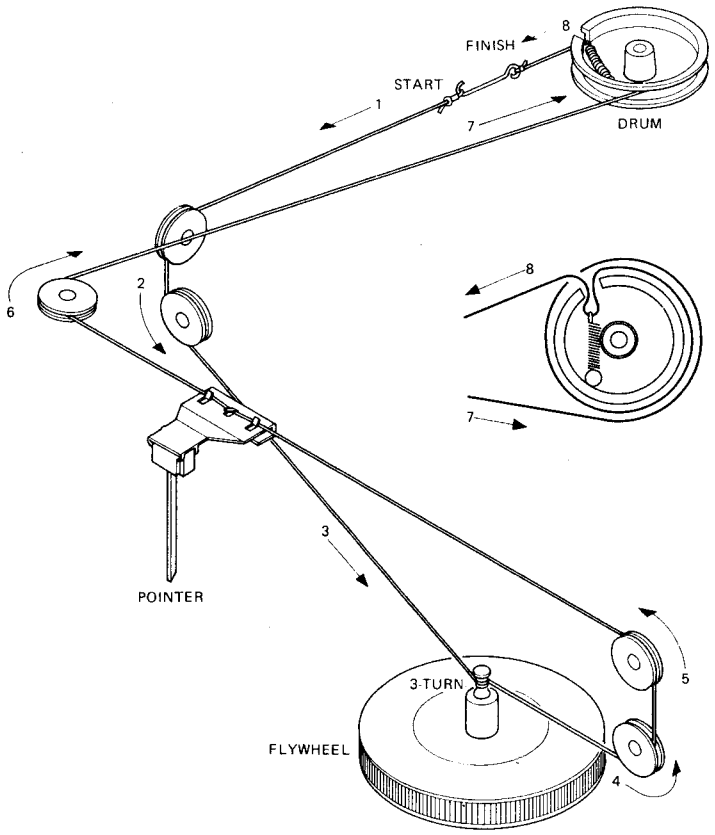


Figure 2. Dial Stringing

FTZ REGULATION

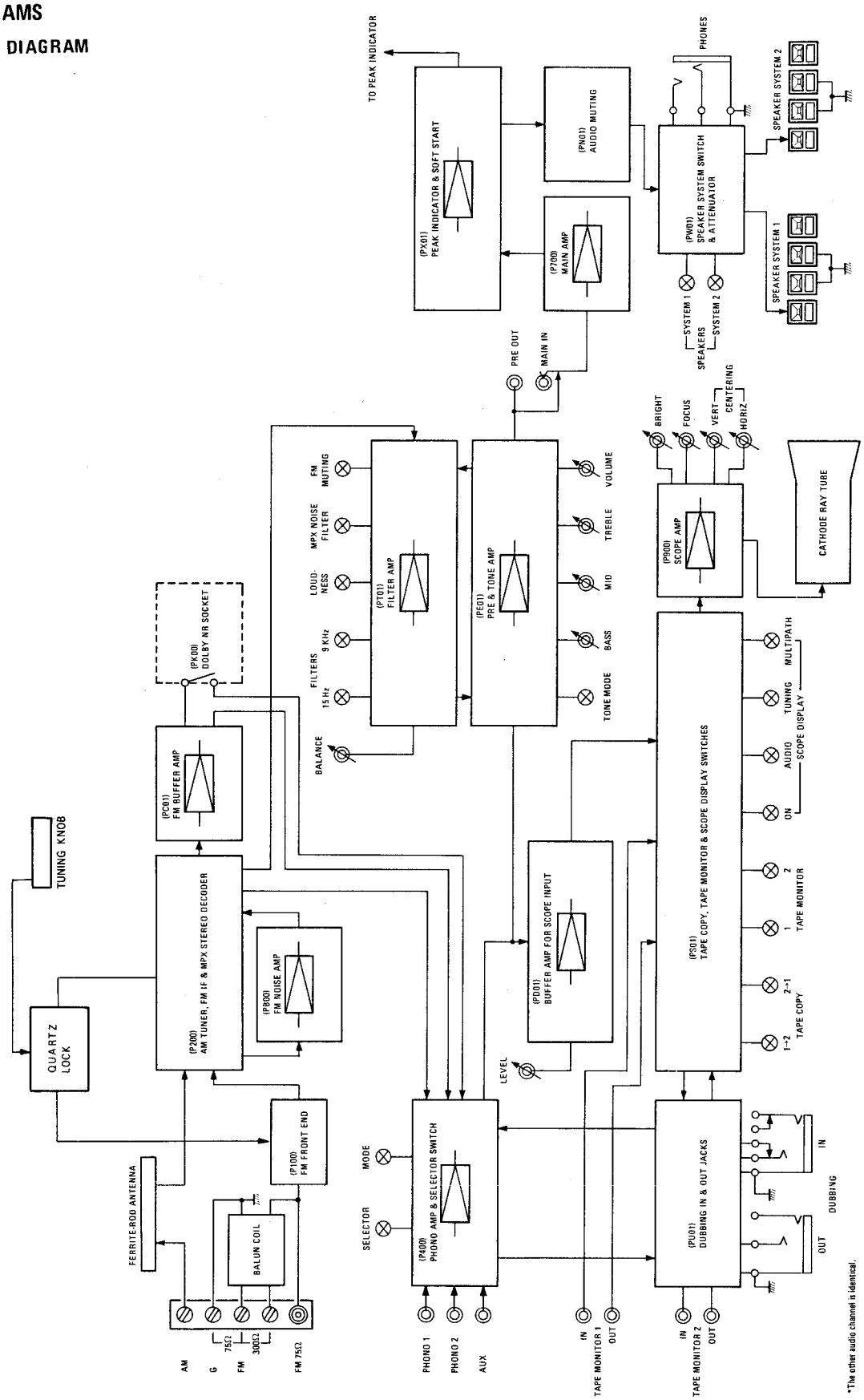
Instruction for the use in the range other than specified in FTZ codes.

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangeberet sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbildung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

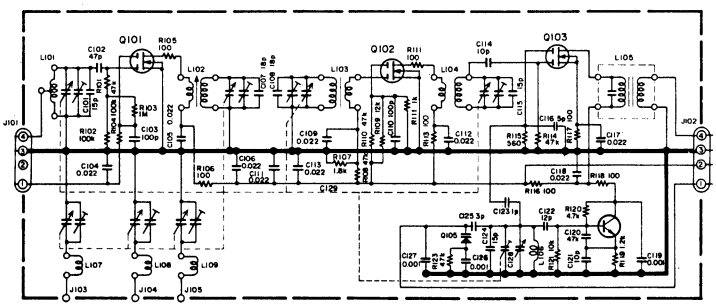
8. DIAGRAMS

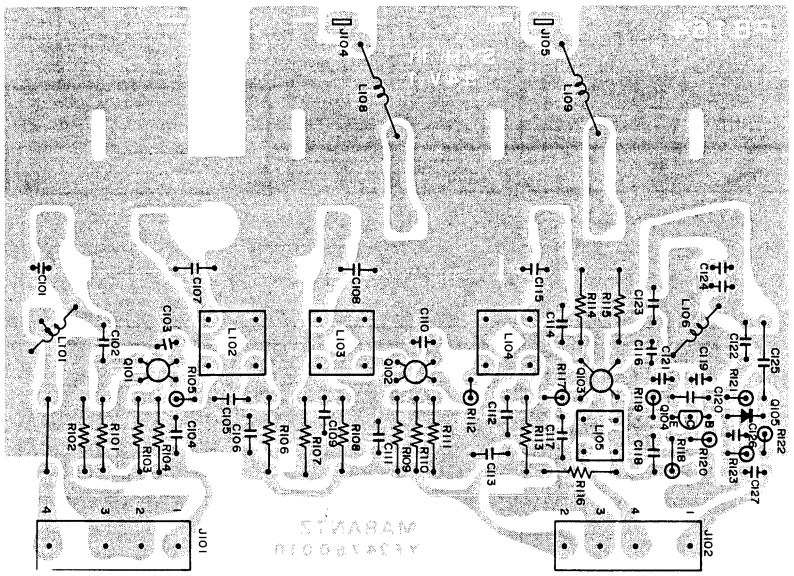
8.1 BLOCK DIAGRAM



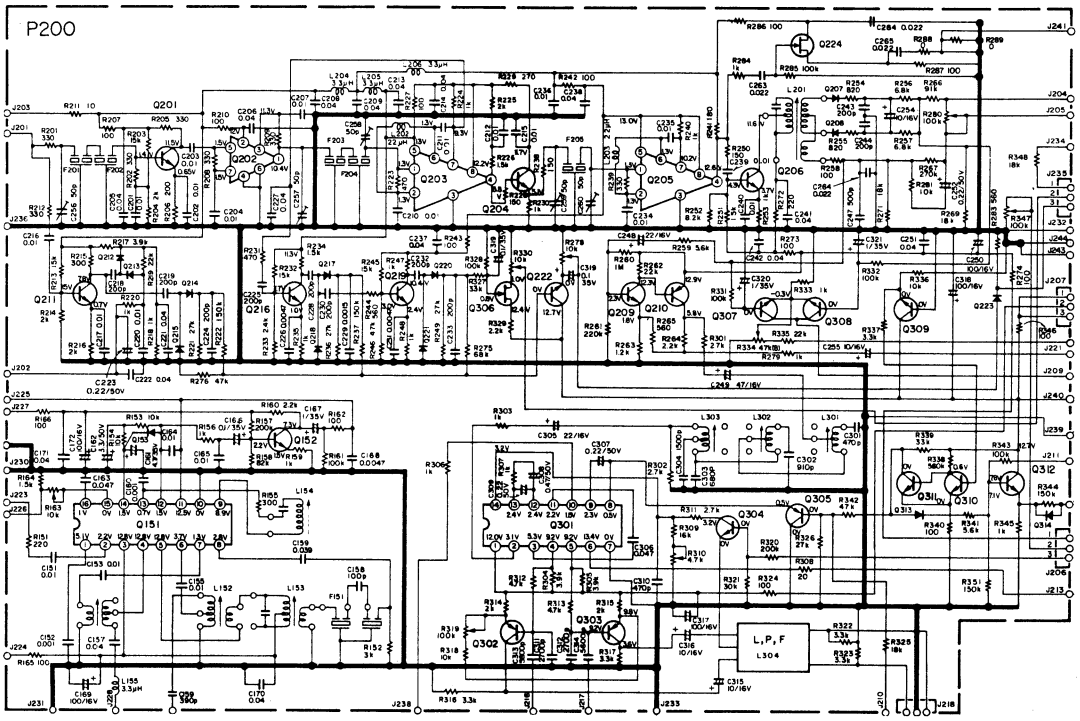
*The other audio channel is identical.

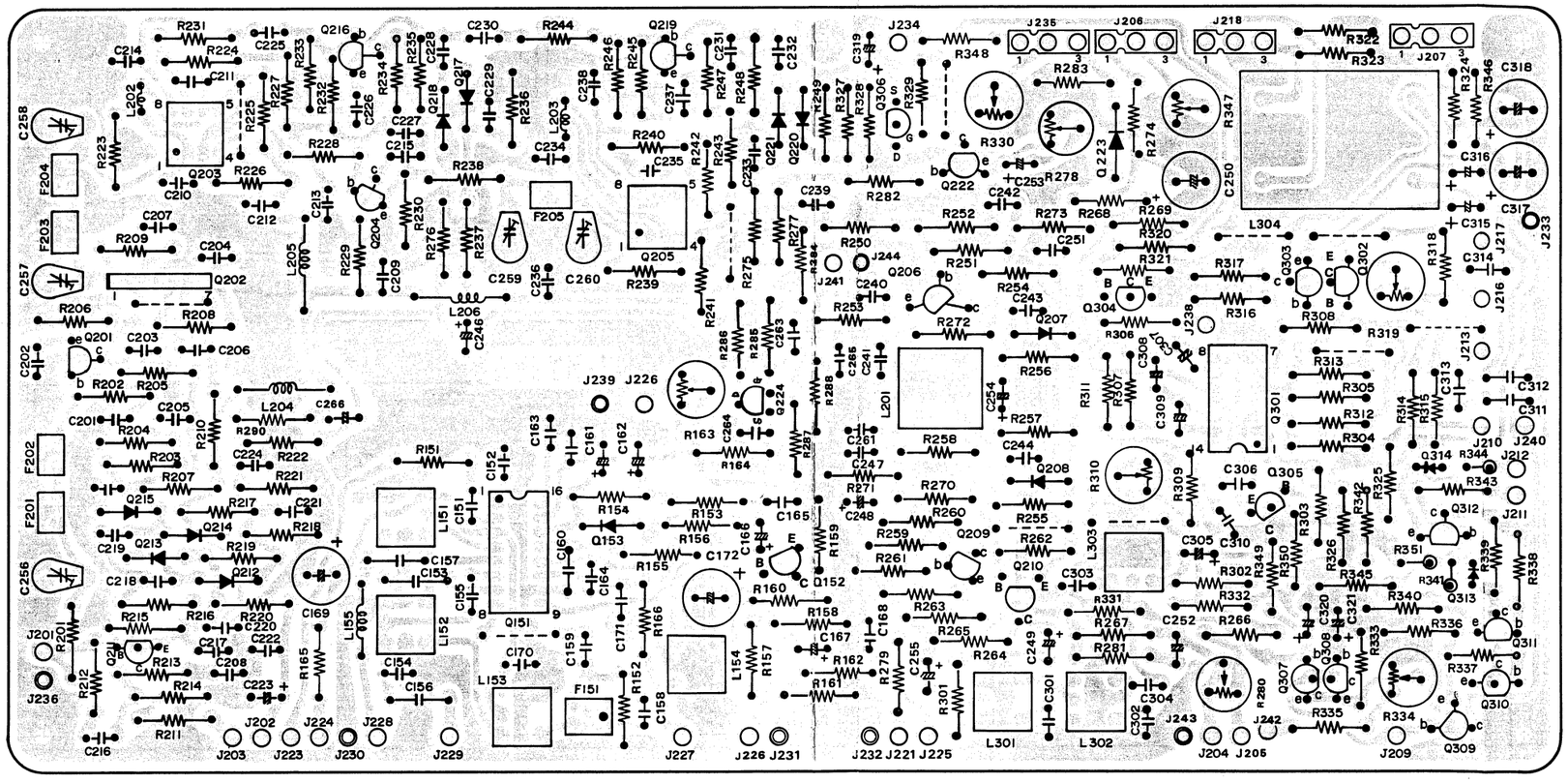
8.2 FM FRONT END BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P100





8.3 AM TUNER/FM IF/STEREO DECODER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P200




R231
C214
C225
R224
C211
Q216
R233
R235
C228
C230
R244
Q219
R246
R245
C231
C232
J234
J235
J206
J218
J207
R322
R323
R348
R283
R330
R328
Q306
R329
C319
C318
C316
C317
R324
R346
C315
J217
J233
L304
C314
J216
R318
Q303
Q302
R317
R316
R308
R319
J213
C312
C311
J240
J210
J212
R344
R343
J211
R351
Q313
R339
R338
Q311
Q310
R337
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J209
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C250
R274
Q223
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R273
R252
R250
C239
C242
R282
Q222
R348
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J218
J207
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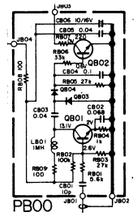
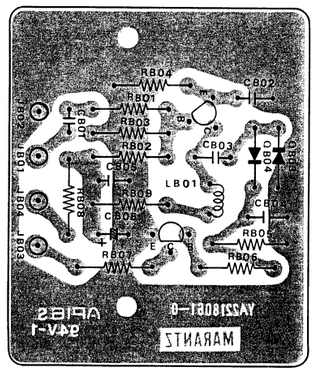
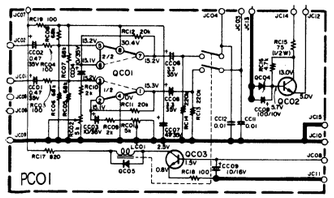
J225
C152
C151
L151
L152
L153
Q151
C160
C164
C171
C159
C158
R152
R166
R165
F151
C157
C153
C155
C154
C156
C170
R151
R154
R153
R156
R155
C172
C165
R160
R158
C167
R162
R161
R157
L154
C169
R218
R219
Q212
Q214
Q213
C219
C218
Q215
R207
R221
C221
R217
C224
R222
R203
R204
C205
C201
L204
R290
C266
R210
C210
Q203
R226
C212
C213
L205
R229
Q204
C209
R230
R276
R238
R237
C259
C236
C260
F205
R239
Q205
R209
C207
C204
Q202
R206
R208
C203
C206
Q201
R202
R205
J201
R201
R212
Q202
R213
C208
C222
C217
R215
R216
R220
C220
R214
C223
R211
C216
J236
J202
J203
J223
J224
J230
J228
J229
J201
R201
R212
Q202
R213
C208
C222
C217
R215
R216
R220
C220
R214
C223
R211
C216
J236
J202
J203
J223
J224
J230
J228
J229

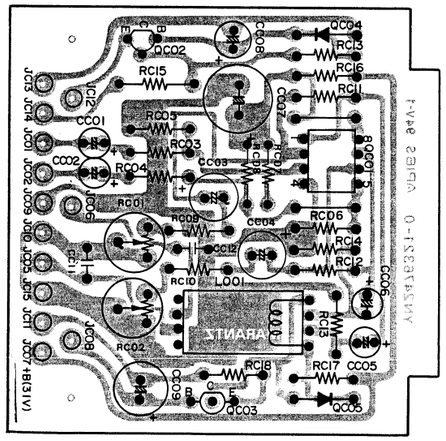
8.4 FM NOISE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PB00



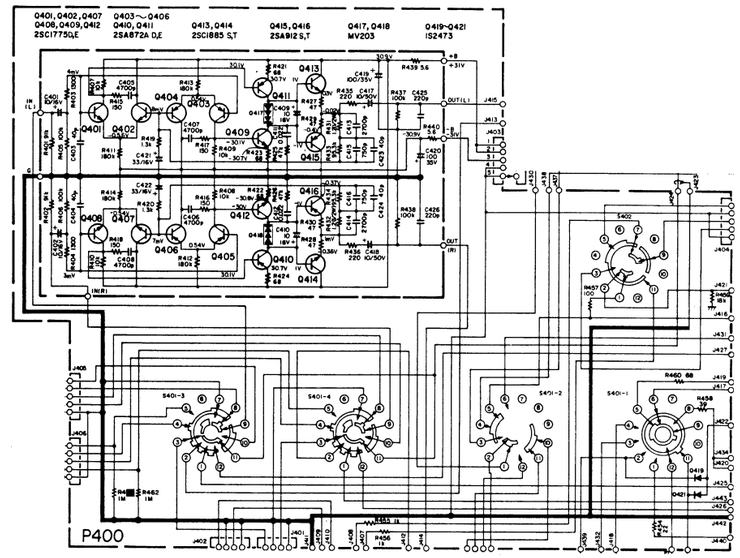


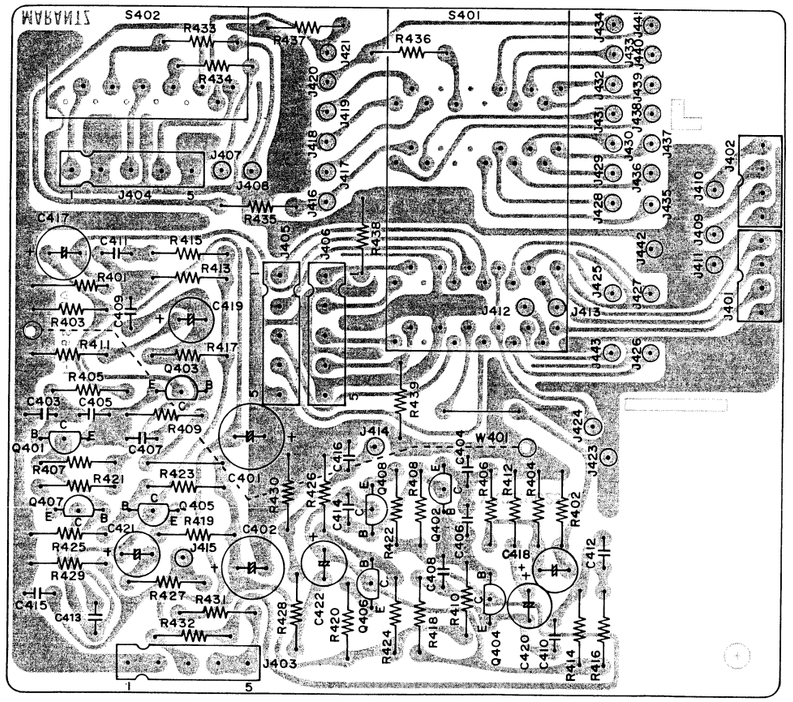
8.5 FM BUFFER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PC01



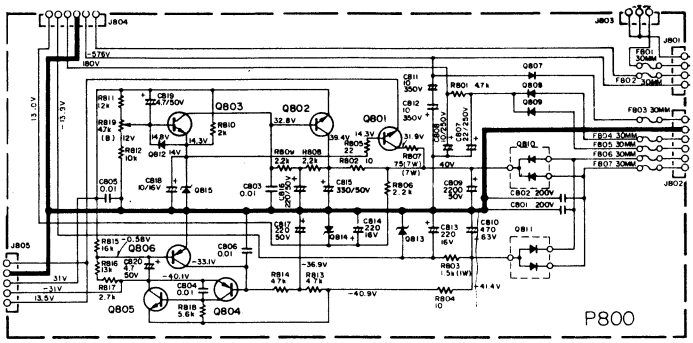


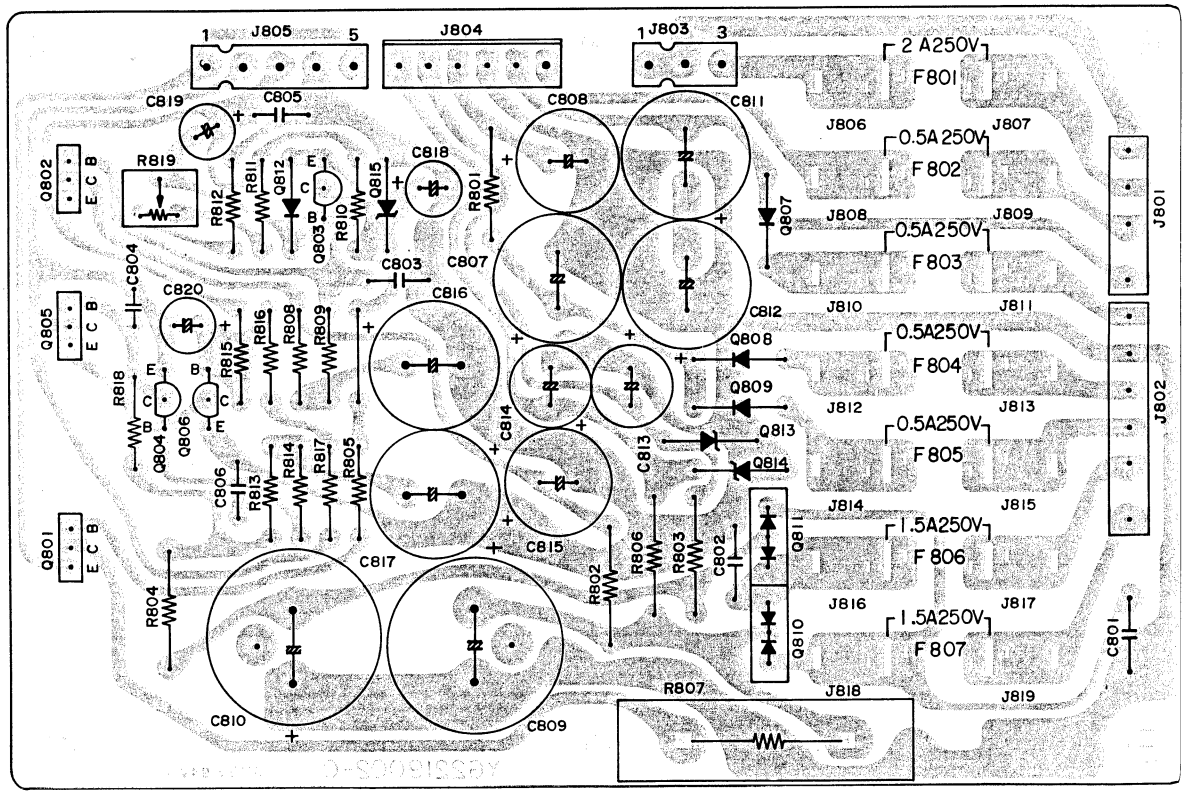
8.6 PHONO AMP/SELECTOR SWITCH BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P400



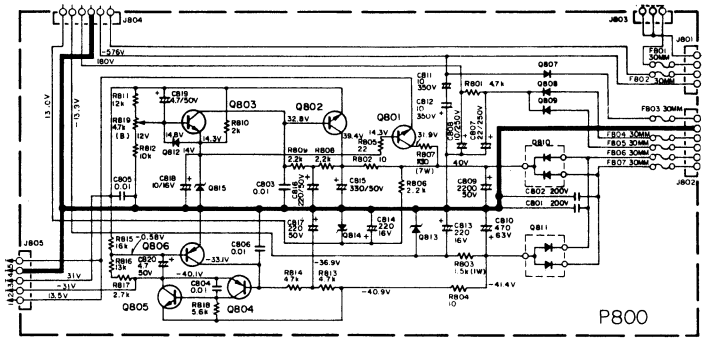


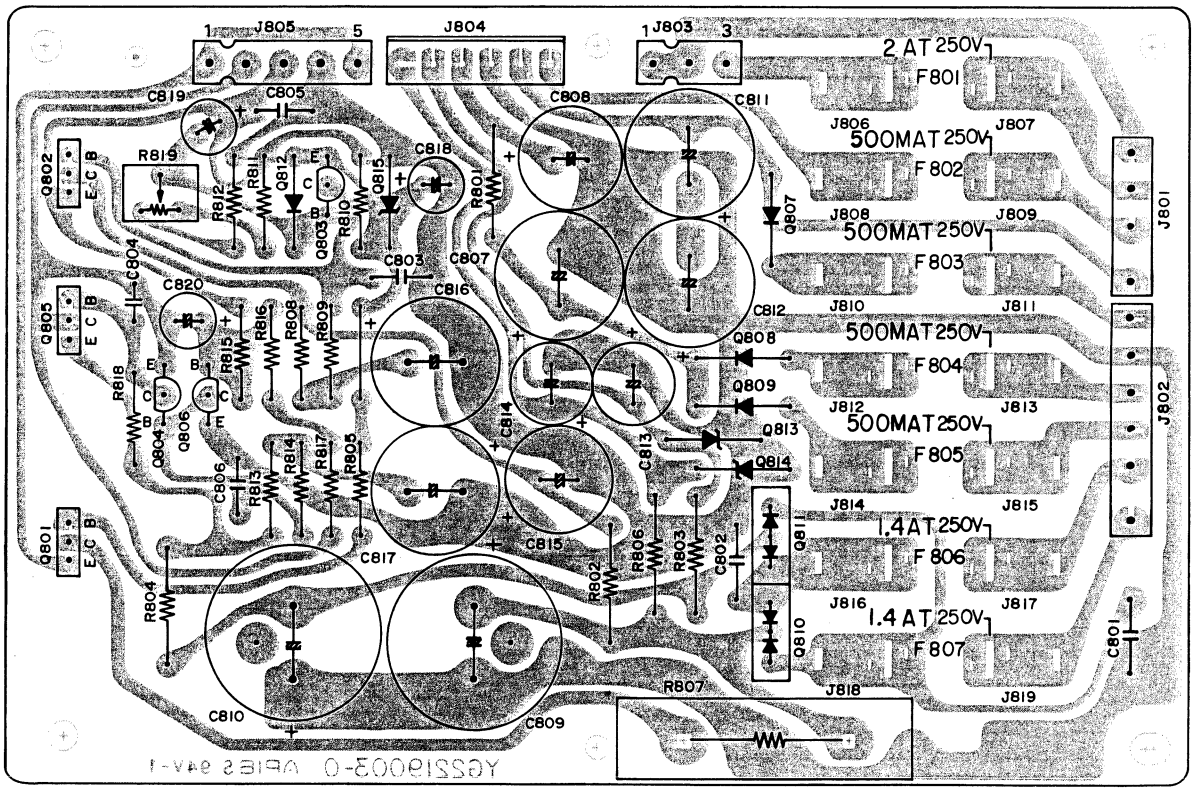
8.7 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800 - U.S.A. & CANADA



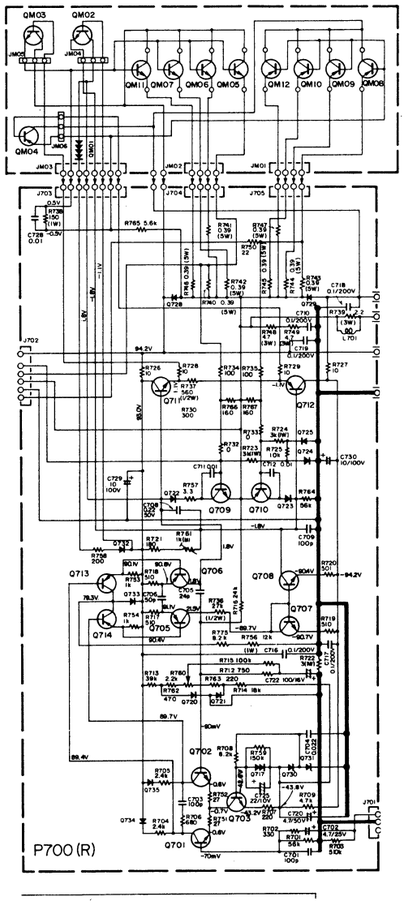


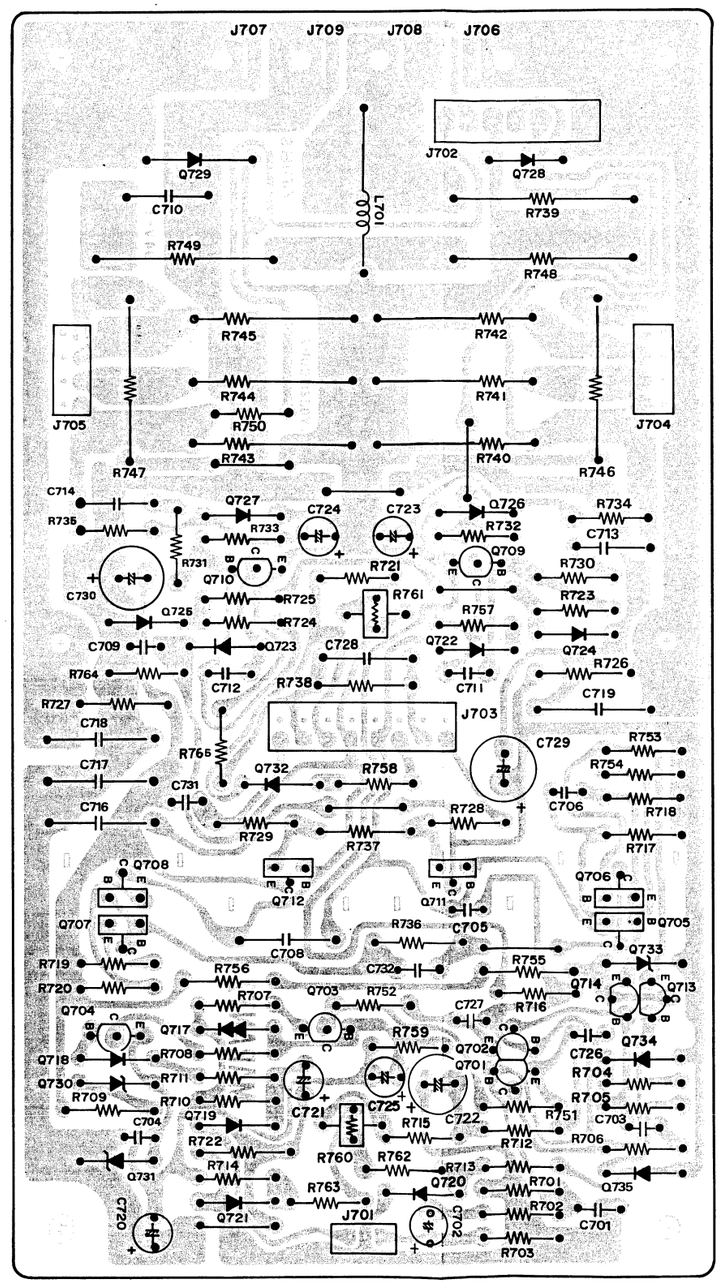
8.8 POWER SUPPLY BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P800 - EUROPE





8.9 MAIN AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P700





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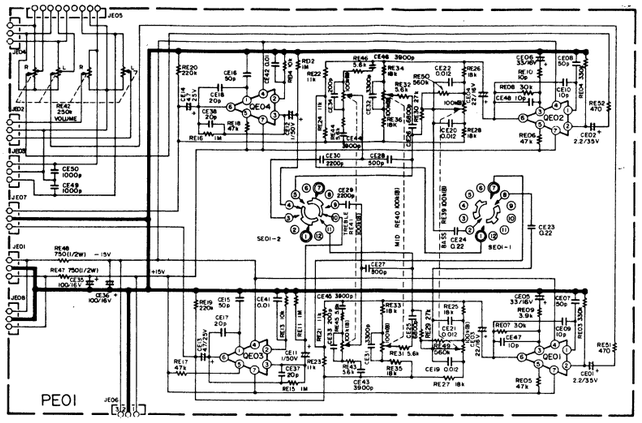
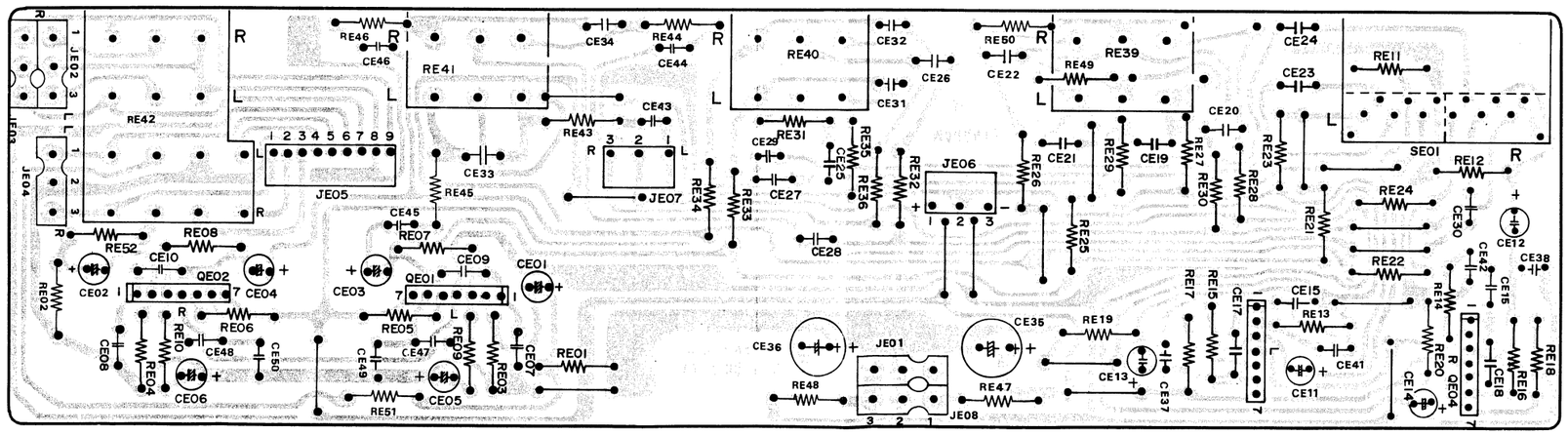
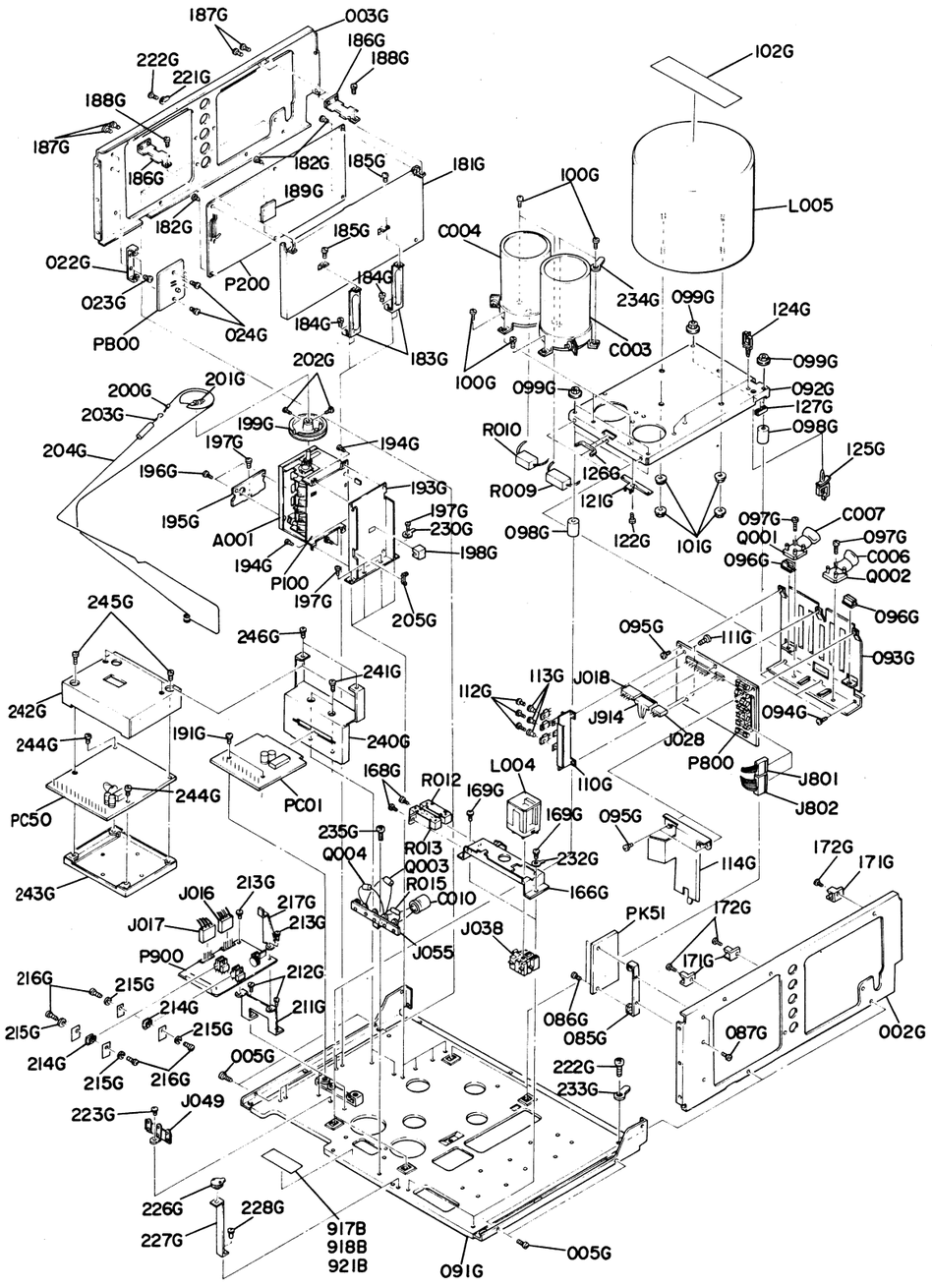
8.10 PRE/TONE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PE01





9.7 [P04-99] PARTS ASSEMBLED ON THE TOP OF THE CHASSIS

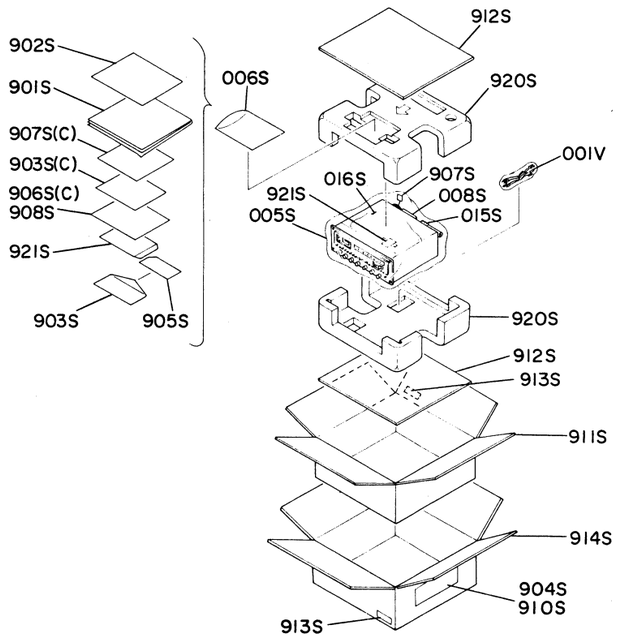


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION	
002G	1	1	1	2218160020	Bracket (R)	
003G	1	1	1	2218160030	Bracket (L)	
005G	4	4	4	51280406B0	B.H. Tapped Screw	B4 x 6
022G	1	1	1	3889160110	Bracket	
023G	2	2	2	51100306A9	B.H.M. Screw	B3 x 6
024G	2	2	2	51100306S9	B.H.M. Screw	B3 x 6
085G	1	1	1	3889160100	Bracket	
086G	2	2	2	51100306A9	B.H.M. Screw	B3 x 6
087G	2	2	2	51100306A9	B.H.M. Screw	B3 x 6
091G	1	1	1	2476105010	Chassis	
092G	1	1	1	2218105020	Chassis	
093G	1	1	1	2218267020	Heatsink	
094G	3	3	3	51280306B0	B.H. Tapped Screw	B3 x 6
095G	3	3	3	51280306U0	B.H. Tapped Screw	B3 x 6
096G	2	2	2	2218271020	Holder	
097G	2	2	2	51280312B0	B.H. Tapped Screw	B3 x 12
098G	4	4	4	2218055010	Collar	
099G	4	4	4	53250501A0	Special Nut	
100G	6	6	6	51280408B0	B.H. Tapped Screw	B4 x 8
101G	4	4	4	53250501A0	Special Nut	
102G	1	1	1	2207861020	Label	
110G	1	1	1	2219267020	Heatsink	
111G	2	2	2	51280306U0	B.H. Tapped Screw	B3 x 6
112G	3	3	3	51280310U0	B.H. Tapped Screw	B3 x 10
113G	3	3	3	2219259030	Bushing	
114G	1	1	1	2219120020	Insulator	
121G	1	1	1	2218123010	Contactor	
122G	1	1	1	51290308B0	B.H. Tapped Screw	B3 x 8
124G	3	3	3	2886005020	Clamper	
125G	1	1	1	2886005050	Clamper	
126G	1	1	1	2218259020	Bushing	
127G	1	1	1	2476259010	Bushing	
166G	1	1	1	2219160050	Bracket	
168G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
169G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
171G	3	3	3	2887005010	Clamper	
172G	3	3	3	51280306B0	B.H. Tapped Screw	B3 x 6
181G	1	1	1	2218160050	Bracket	
182G	6	6	6	51280306U0	B.H. Tapped Screw	B3 x 6
183G	2	2	2	2218160060	Bracket	
184G	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6
185G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
186G	2	2	2	2218160090	Bracket	
187G	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6
188G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
189G	1	1	1	2908109020	Shield	
191G	2	2	2	51100306A9	B.H.M. Screw	B3 x 6
193G	1	1	1	2218160080	Bracket	
194G	4	4	4	51280306B0	B.H. Tapped Screw	B3 x 6
195G	1	1	1	2218160040	Bracket	
196G	2	2	2	51100306A0	B.H.M. Screw	B3 x 6
197G	5	5	5	51280306B0	B.H. Tapped Screw	B3 x 6
198G	1	1	1	2891056010	Buffer	
199G	1	1	1	2219159010	Drum	
200G	1	1	1	56382540G0	Eyelet	
201G	1	1	1	71101689L0	Spring	
202G	2	2	2	51064019A9	P.H.M. Screw	
203G	1	1	1	1202258010	Hook	
204G	1	1	1	72071605A0	String (200)	
205G	1	1	1	4640259010	Bushing	

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION	
211G	1	1	1	2219160020	Bracket	
212G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
213G	2	2	2	51280306U0	B.H. Tapped Screw	B3 x 6
214G	2	2	2	2219267040	Heatsink	
215G	4	4	4	54040302N0	Spring Washer	
216G	4	4	4	5002030589	Screw	3 x 5
217G	1	1	1	2207005020	Clamper	
221G	1	1	1	62030039W0	Lug	
222G	3	3	3	51280306B0	B.H. Tapped Screw	B3 x 6
223G	1	1	1	51290306B0	B.H. Tapped Screw	B3 x 6
226G	1	1	1	2908259010	Bushing	
227G	1	1	1	2991005010	Clamper	
228G	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6
230G	1	1	1	62030039W0	Lug	
232G	1	1	1	62030049W0	Lug	
233G	1	1	1	62030049W0	Lug	
235G	1	1	1	51280306B0	B.H. Tapped Screw	B3 x 6
240G	1	1	1	2476160010	Bracket	
241G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
242G	1	1	1	2286053110	Cover	
243G	1	1	1	2286053120	Cover	
244G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
245G	2	2	2	51280306B0	B.H. Tapped Screw	B3 x 6
246G	2	2	2	51100306A9	B.H.M. Screw	B3 x 6
917B	1			9510221010	Label	
918B		1		2911861160	Label	
921B			1	9510221010	Label	
A001	1	1	1	AV11202020	V.H.F. Tuner, FM Front End	
C003	1	1	1	ES72810510	Elect Cap. 7200μF x 2	105V
C004	1	1	1	ES72810510	Elect Cap. 7200μF x 2	105V
C006	1	1	1	DF17223520	Film Cap. 0.022μF	±20%
C007	1	1	1	DF17223520	Film Cap. 0.022μF	±20%
C010	1	1	1	EA47610010	Elect Cap. 47μF	100V
J016	1	1	1	YJ06001360	Jack, (5P)	
J017	1	1	1	YJ06001620	Jack, (5P)	
J018	1	1	1	YJ06001050	Jack, (5P)	
J028	1	1	1	YJ06001040	Jack, (3P)	
J038	1	1		YJ06001410	Jack, (11P)	
J038			1	YJ06001420	Jack, (11P)	
J049	1	1	1	YL01030210	Terminal, (3P)	
J055	1	1	1	YL01050010	Terminal, (5P)	
L004	1	1	1	LY30480010	Rellay	
L005	1	1		TS44503010	Power Transformer	
L005			1	TS44503020	Power Transformer	
Q001	1	1	1	HE20003290	Diode	S10VB40
Q002	1	1	1	HE20003290	Diode	S10VB40
Q003	1	1	1	HD20006210	Diode	1SR34-400
Q004	1	1	1	HD20006210	Diode	1SR34-400
R009	1	1	1	GS05472020	Resistor 4.7KΩ	±5% 2.5W
R010	1	1	1	GS05472020	Resistor 4.7KΩ	±5% 2.5W
R012	1		1	GQ10681100	Resistor 680Ω	±10% 10W
R012		1		GQ10821100	Resistor 820Ω	±10% 10W
R013	1		1	GQ10100100	Resistor 10Ω	±10% 10W
R013		1		GS10220200	Resistor 22Ω	±10% 20W
R015	1	1	1	GF05333120	Resistor 33KΩ	±5% ½W
J801	1	1	1	YP06000830	Plug (4P)	
J802	1	1	1	YP06000840	Plug (6P)	
J914	1	1	1	YJ06001310	Jack (6P)	

9.8 [H01-99] PACKING MATERIALS



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
006S	1	1	1	9013025010	Polyethy Bag
008S	1	1	1	2864804010	Sleeve
015S	1	1	1	2819056010	Buffer
016S	1	1	1	2918107220	Sheet
901S	1			2476851010	Instructions
901S		1	1	2476851310	Instructions
902S	1			2476851020	Insturctions
902S			1	2476851030	Instructions
902S		1		2476851050	Instructions
903S			1	2818813010	Envelope
903S		1		2886851100	Instructions
904S	1			2476861100	Label
904S		1		2918813010	Envelope
905S			1	9630000180	Guarantee Card
906S	1			2818854020	Guarantee Card
906S		1		9630000180	Guarantee Card
907S			1	9560000040	Hang Tag
907S		1		9650000050	S. Station Card
908S		1		2818854040	Guarantee Card
910S		2		9510901020	Label

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
911S	1			2476801010	Packing Case
911S			1	2476801020	Packing Case
911S		1		2476801150	Packing Case
912S	2	2	2	2219807010	Reinforcing
913S	4			9526019010	Serial No Card
913S		4		9526019020	Serial No Card
913S			7	9526019060	Serial No Card
914S	1	1	1	2476801110	Packing Case
920S	2	2	2	2219809020	Cushion
921S	1			2225813010	Envelope
921S			1	2731821010	Silicagel
930S			1	9015555500	Polyethy Bag
930S	1	1		9091212080	Polyethy Sheet
001V	1	1	1	ZA02000070	EXT. Antenna

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9.9 ELECTRICAL PARTS

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					P100-FRONT END CIRCUIT BOARD
P100	1	1	1	YF24760010	P.W. Board, Front End
	1	1	1	ZZ24760010	P.W. Board Assembly
					P100-CAPACITORS
C101	1	1	1	DD15150370	Ceramic 15pF SL 50V
C102	1	1	1	DD15470300	Ceramic 47pF ±5% 50V
C103	1	1	1	DD15101370	Ceramic 100pF
C104	1	1	1	DK18223320	Ceramic 0.022μF
C105	1	1	1	DK18223320	Ceramic 0.022μF
C106	1	1	1	DK18223320	Ceramic 0.022μF
C107	1	1	1	DD15180300	Ceramic 18pF
C108	1	1	1	DD15180300	Ceramic 18pF
C109	1	1	1	DK18223320	Ceramic 0.022μF
C110	1	1	1	DD15101370	Ceramic 100pF ±5%
C111	1	1	1	DK18223320	Ceramic 0.022μF +100%–0
C112	1	1	1	DK18223320	Ceramic 0.022μF
C113	1	1	1	DK18223320	Ceramic 0.022μF
C114	1	1	1	DD11100370	Ceramic 10pF
C115	1	1	1	DD15150300	Ceramic 15pF ±5%
C116	1	1	1	DD10050370	Ceramic 5pF ±0.25pF
C117	1	1	1	DK18223320	Ceramic 0.022μF +100%–0
C118	1	1	1	DK18223320	Ceramic 0.022μF +100%–0
C119	1	1	1	DK16102300	Ceramic 0.001μF ±10%
C120	1	1	1	DD15470300	Ceramic 47pF ±5%
C121	1	1	1	DD11100300	Ceramic 10pF ±0.5pF
C122	1	1	1	DD15120340	Ceramic 12pF ±5%
C123	1	1	1	DD10010370	Ceramic 1pF ±0.25pF
C124	1	1	1	DD15150340	Ceramic 15pF ±5%
C125	1	1	1	DD10030300	Ceramic 3pF ±0.25pF 50V
C126	1	1	1	DK16102300	Ceramic 0.001μF ±10%
C127	1	1	1	DK16102300	Ceramic 0.001μF ±10%
					P100-RESISTORS (All Resistors are ±5% and ¼W)
R101	1	1	1	GD05473140	47KΩ
R102	1	1	1	GD05104140	100KΩ
R103	1	1	1	GD05105140	1MΩ
R104	1	1	1	GD05104140	100KΩ
R105	1	1	1	GD05101140	100Ω
R106	1	1	1	GD05101140	100Ω
R107	1	1	1	GD05182140	1.8KΩ
R108	1	1	1	GD05473140	47KΩ
R109	1	1	1	GD05153140	15KΩ
R110	1	1	1	GD05153140	15KΩ
R111	1	1	1	GD05102140	1KΩ
R112	1	1	1	GD05101140	100Ω
R113	1	1	1	GD05101140	100Ω
R114	1	1	1	GD05473140	47KΩ
R115	1	1	1	GD05561140	560Ω
R116	1	1	1	GD05101140	100Ω
R117	1	1	1	GD05101140	100Ω
R118	1	1	1	GD05101140	100Ω
R119	1	1	1	GD05122140	1.2KΩ
R120	1	1	1	GD05472140	4.7KΩ
R121	1	1	1	GD05103140	10KΩ
R122	1	1	1	GD05473140	47KΩ
R123	1	1	1	GD05473140	47KΩ

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					P100-SEMICONDUCTORS
Q101	1	1	1	HF400591A0	F.E.T. 3SK59
Q102	1	1	1	HF400591A0	F.E.T. 3SK59
Q103	1	1	1	HF400591A0	F.E.T. 3SK59
Q104	1	1	1	HT307101C0	Transistor 2SC710
Q105	1	1	1	HD40012090	Varicap 1S2687
					P100-MISCELLANEOUS
F151	1	1	1	FF10045160	Ceramic Filter
J101 ~ J105	5	5	5	YJ06001150	Jack
L151	1	1	1	LA10010190	ANT Coil
L152	1	1	1	LO10010480	OSC Coil
L153	1	1	1	LI10015010	I.F.T.
L154	1	1	1	LI10015060	I.F.T.
L155	1	1	1	LC13320020	Choke Coil
A001	1	1	1	AV11202020	V.H.F. Tuner FM Front End
					P200-TUNER CIRCUIT BOARD
P200	1	1	1	YD22182062	P.W. Board Tuner
	1	1		ZZ24762060	P.W. Board Assembly
			1	ZZ24768060	P.W. Board Assembly
					P200-CAPACITORS
C151	1	1	1	DF17103300	Film 0.01μF ±20%
C152	1	1	1	DF17102350	Film 0.001μF ±20%
C153	1	1	1	DF17103010	Film 0.01μF ±20%
C155	1	1	1	DF17103010	Film 0.01μF
C156	1	1	1	DF65391010	Film 390pF ±5%
C157	1	1	1	DF17403010	Film 0.04μF ±20%
C158	1	1	1	DD16101010	Ceramic 100pF ±10%
C159	1	1	1	DF17393300	Film 0.039μF ±20%
C160	1	1	1	DF17102010	Film 0.001μF ±20%
C161	1	1	1	EA47503590	Elect 4.7μF 35V
C162	1	1	1	EA33505090	Elect 3.3μF 50V
C163	1	1	1	DF17473300	Film 0.047μF ±20%
C164	1	1	1	DF17103300	Film 0.01μF ±20%
C165	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C166	1	1	1	EV10403560	Elect 0.1μF 35V
C167	1	1	1	EV10503560	Elect 1μF 35V
C168	1	1	1	DK17472300	Ceramic 0.0047μF ±20%
C169	1	1	1	EA10701690	Elect 100μF 16V
C170	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C171	1	1	1	DK18403020	Ceramic 0.04μF
C172	1	1	1	EA10701690	Elect 100μF 16V
C201	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C202	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C203	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C204	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C205	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C206	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C207	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C208	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C209	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C210	1	1	1	DK17103300	Ceramic 0.01μF ±20%

• (U): for U.S.A.
• (C): for Canada
• (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PX01-SEMICONDUCTORS
QX01	1	1	1	HT320713A0	Transistor 2SC2071 (G, B, V)
QX02	1	1	1	HT320713A0	Transistor 2SC2071 (G, B, V)
QX03	1	1	1	HT109412A0	Transistor 2SA941 (GR or BL)
QX04	1	1	1	HT109412A0	Transistor 2SA941 (GR or BL)
QX05	1	1	1	HT109412A0	Transistor 2SA941 (GR or BL)
QX06	1	1	1	HT109412A0	Transistor 2SA941 (GR or BL)
QX07	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QX08	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QX09	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QX10	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QX11	1	1	1	HD20011010	Diode W06C
QX12	1	1	1	HD20011010	Diode W06C
QX13	1	1	1	HD20001210	Diode 1S2473
QX14	1	1	1	HD20001210	Diode 1S2473
QX15	1	1	1	HD20001210	Diode 1S2473
QX16	1	1	1	HD20001210	Diode 1S2473
QX17	1	1	1	HD30023090	Zener WZ-071
QX18	1	1	1	HD30023090	Zener WZ-071
QX19	1	1	1	HT107332A0	Transistor 2SA733 (P or Q)
QX20	1	1	1	HT107332A0	Transistor 2SA733 (P or Q)
QX21	1	1	1	HT206472B0	Transistor 2SB647A (C or D)
QX23	1	1	1	HV00003120	Varistor MV13
QX24	1	1	1	HV00003120	Varistor MV13
QX25	1	1	1	HD20001210	Diode 1S2473
QX27	1	1	1	HD20005010	Diode W06B
QX28	1	1	1	HD30023090	Zener WZ-071
					PX01-MISCELLANEOUS
JX01	1	1	1	YJ06001300	Jack, (6P)
JX02	1	1	1	YJ06001320	Jack, (6P)
JX03	1	1	1	YP06000570	Plug, (3P)
JX04	1	1	1	YP06000570	Plug, (3P)
JX05	1	1	1	YP06000600	Plug, (9P)
					PY01-FUNCTION IND. CIRCUIT BOARD
PY01	1	1	1	YF24760020	P.W. Board, Function Ind.
	1	1	1	ZZ24760020	P.W. Board Assembly
					PY01-CAPACITORS
CY01	1	1	1	EA47601690	Elect 47μF 16V
					PY01-RESISTORS
RY01	1	1	1	RT05751140	750Ω ±5% ¼W
RY02	1	1	1	RT05751140	750Ω ±5% ¼W
					PY01-SEMICONDUCTORS
QY01	1	1	1	HI10004030	L.E.D.
QY02	1	1	1	HI10004030	L.E.D.
QY03	1	1	1	HI10004030	L.E.D.
QY04	1	1	1	HI10004030	L.E.D.
QY05	1	1	1	HI10004030	L.E.D.
QY06	1	1	1	HI10004030	L.E.D.
QY07	1	1	1	HI10004030	L.E.D.
QY08	1	1	1	HI10004030	L.E.D.
QY09	1	1	1	HI10004030	L.E.D.
QY10	1	1	1	HD20001210	Diode 1S2473C
					PY01-PLUG
JY30	1	1	1	YP10002120	Plug
JY31	1	1	1	YP10001690	Plug

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PZ01-DIAL ILLUMINATOR CIRCUIT BOARD
PZ01	1	1	1	YD22180040	P.W. Board, Dial Illuminator
	1	1	1	ZZ22180040	P.W. Board Assembly
					PZ01-MISCELLANEOUS
JZ01 ~ JZ04	4	4	4	YP10001130	Plug
JZ05 ~ JZ16	12	12	12	YJ08000170	Jack, Lamp Holder
JZ17 ~ JZ21	5	5	5	YP10001130	Plug
VZ01 ~ VZ06	6	6	6	IN10080070	Lamp 0.2A 8V

(W01-99)	**Assembly and Wiring**
(T01-99)	**Adjustment**
(X01-00)	**Correction**

10. TECHNICAL SPECIFICATIONS

[U.S.A. & CANADIAN MODELS ONLY]

AMPLIFIER SECTION:

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN . . . . . 300 W
POWER BAND . . . . . 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.03%
LOAD IMPEDANCE . . . . . 8 OHMS
RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN . . . . . 400 W
POWER BAND . . . . . 20 Hz to 20 kHz
TOTAL HARMONIC DISTORTION 0.05%
LOAD IMPEDANCE . . . . . 4 OHMS
I.M. Distortion
(I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance 0.03%
at 4 ohm load impedance 0.05%
Damping Factor (at 20 Hz) 60
Sensitivity (at MAIN IN) . . . . . 1.5 V
Impedance (at MAIN IN) . . . . . 40 kohms
Frequency Response for Power Amp Only
(at 1 Watt output, 20 Hz to 20 kHz) . . . . . ±0.2 dB

PREAMPLIFIER SECTION:

Phono
Input Overload at 1 kHz . . . . . 200 mV
Equivalent Input Noise . . . . . 1.0 μV
Dynamic Range
(Dynamic Range is the ratio of input overload to equivalent input noise) . . . . . 106 dB
Input Sensitivity . . . . . 1.8 mV
Input Impedance . . . . . 47 kohms
Input Capacitance . . . . . 100 pF
Frequency Response, RIAA 20 Hz to 20 kHz . . . . . ±0.2 dB
Signal-to-Noise Ratio
(at rated output and 7.75 mV input) . . . . . 80 dB
High Level (Aux and Tape)
Input Sensitivity . . . . . 180 mV
Input Impedance . . . . . 40 kohms
Frequency Response
(includes power amp) . . . . . 10 Hz to 60 kHz, ±1.0 dB
Signal to Noise Ratio
(ref. to rated output and 775 mV input) . . . . . 98 dB
Output Levels
Tape Out (ref. 7.75 mV at Phono inputs) . . . . . 775 mV
Pre-Out (ref. 180 mV at Aux inputs) . . . . . 1.5 V
(ref. 500 mV at Aux inputs, main amp disconnected) . . . . . 4.2 V
Output Impedance
Tape Out . . . . . 500 ohms
Pre Out . . . . . 300 ohms

FM TUNER SECTION:

Sensitivity
IHF Usable . . . . . 8.75 dBf (1.5 μV)
IHF 50 dB Quieting (Mono) . . . . . 12.1 dBf (2.2 μV)
(Stereo) . . . . . 33.2 dBf (25 μV)

Quieting Slope (Mono)
- RF Input for 30 dB Quieting . . . . . 6.8 dBf (1.2 μV)
- Quieting at:
  - 20 dBf (5.5 μV) . . . . . 60 dB
  - 25 dBf (10 μV) . . . . . 66 dB
  - 40 dBf (55 μV) . . . . . 78 dB
  - 65 dBf (1000 μV) . . . . . 82 dB

Quieting Slope (Stereo)
- Quieting at:
  - 30 dBf (17 μV) . . . . . 49 dB
  - 40 dBf (55 μV) . . . . . 62 dB
  - 50 dBf (173 μV) . . . . . 70 dB
  - 65 dBf (1000 μV) . . . . . 75 dB

Distortion (Mono) at 65 dBf (1000 μV)
- 100 Hz 0.15%
- 1000 Hz 0.1%
- 6000 Hz 0.15%

Distortion (Stereo) at 65 dBf (1000 μV)
- 100 Hz 0.35%
- 1000 Hz 0.2%
- 6000 Hz 0.3%

Distortion (Mono and Stereo)
- at 50 dB Quieting, 1000 Hz 0.4%

Hum and Noise
- at 65 dBf (1000 μV)
  - Mono . . . . . 80 dB

Frequency Response
- 30 Hz to 15 kHz
  - Mono . . . . . +0.2 dB, –1.0 dB
  - Stereo . . . . . +0.2 dB, –1.0 dB

Capture Ratio at 65 dBf (1000 μV) . . . . . 1.0 dB
Alternate Channel Selectivity . . . . . 85 dB
Spurious Response Rejection . . . . . 120 dB
Image Response Rejection . . . . . 120 dB
I.F. Rejection (Balanced) . . . . . 120 dB
A.M. Suppression . . . . . 60 dB
Stereo Separation
- 100 Hz . . . . . 45 dB
- 1000 Hz . . . . . 50 dB
- 10 kHz . . . . . 42 dB

Subcarrier Rejection . . . . . 75 dB

AM TUNER SECTION:

IHF Usable Sensitivity . . . . . 10 μV
Distortion (THD), 30% Modulation 0.4%
Signal-to-Noise Ratio . . . . . 55 dB
Alternate Channel Selectivity . . . . . 50 dB
Image Rejection . . . . . 80 dB
Spurious Response Rejection . . . . . 80 dB
I. F. Rejection . . . . . 80 dB

GENERAL:

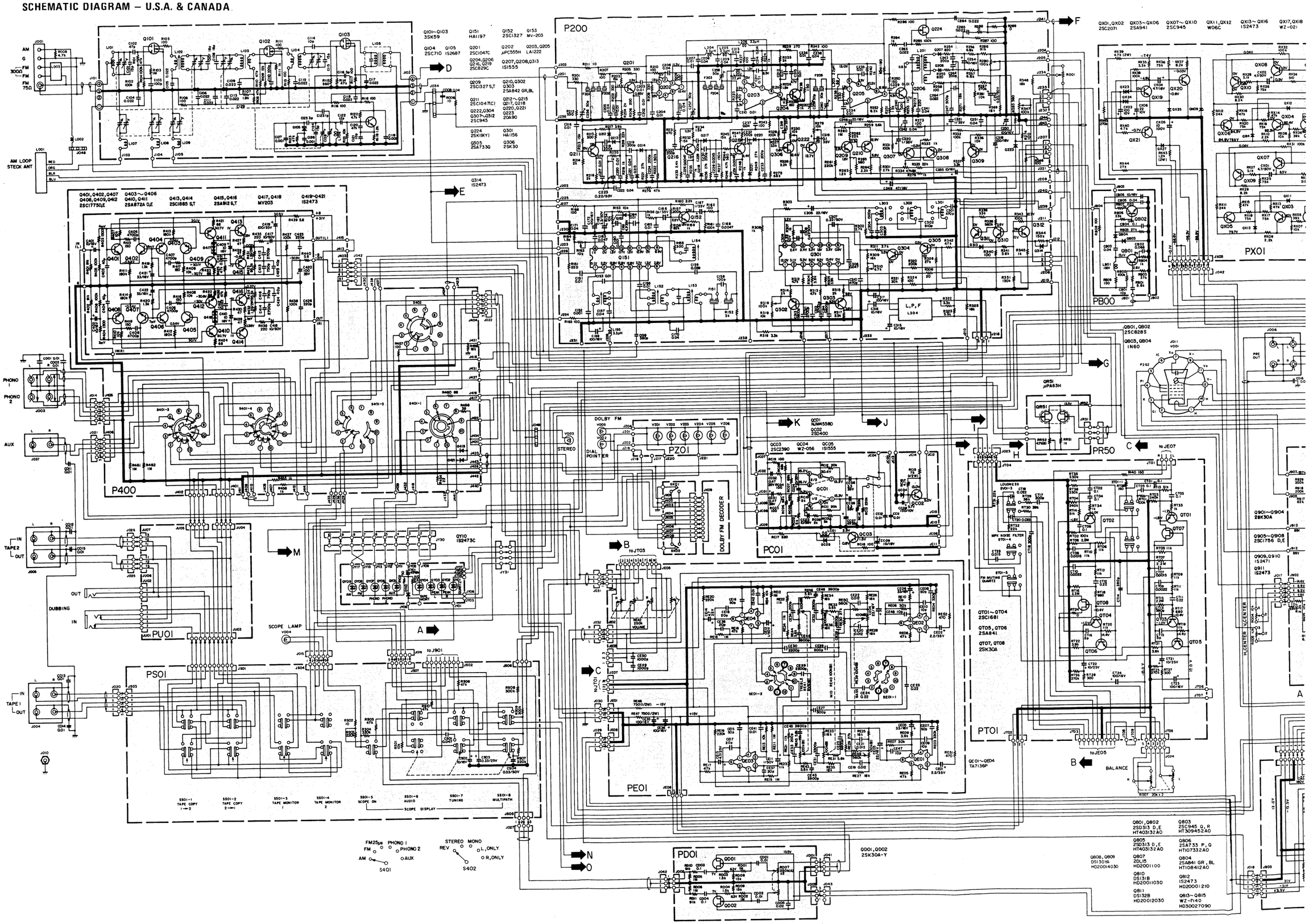
Power Requirements . . . . . 120 VAC, 60 Hz
Power Consumption at rated output, both channels operating . . . . . 920 W
Idling Power (Volume Control at zero) . . . . . 115 W

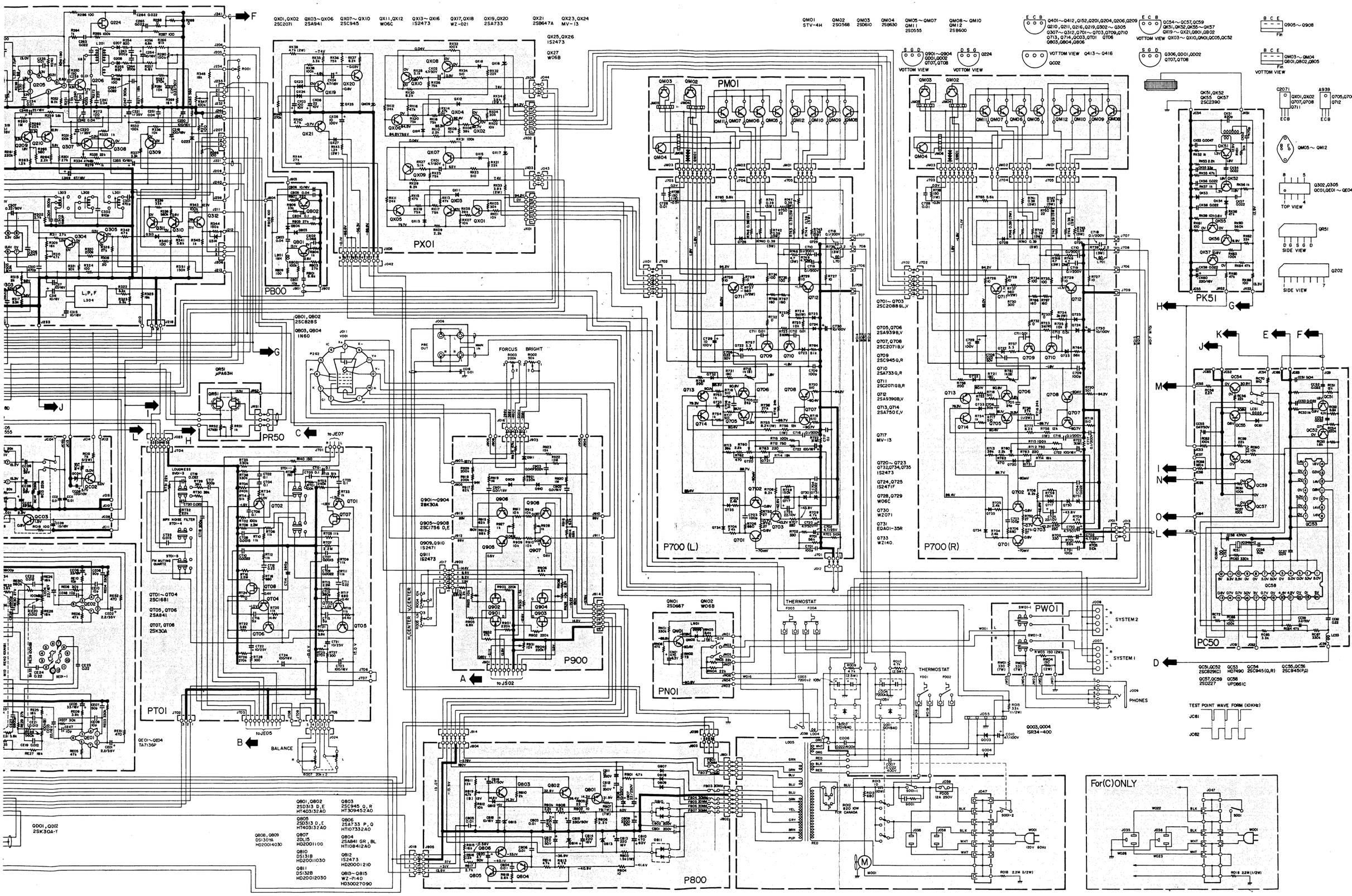
marantz

Dimensions:
- Panel Width . . . . . 490 mm (19-1/4")
- Panel Height . . . . . 177 mm (7")
- Depth . . . . . 438 mm (17-1/4")

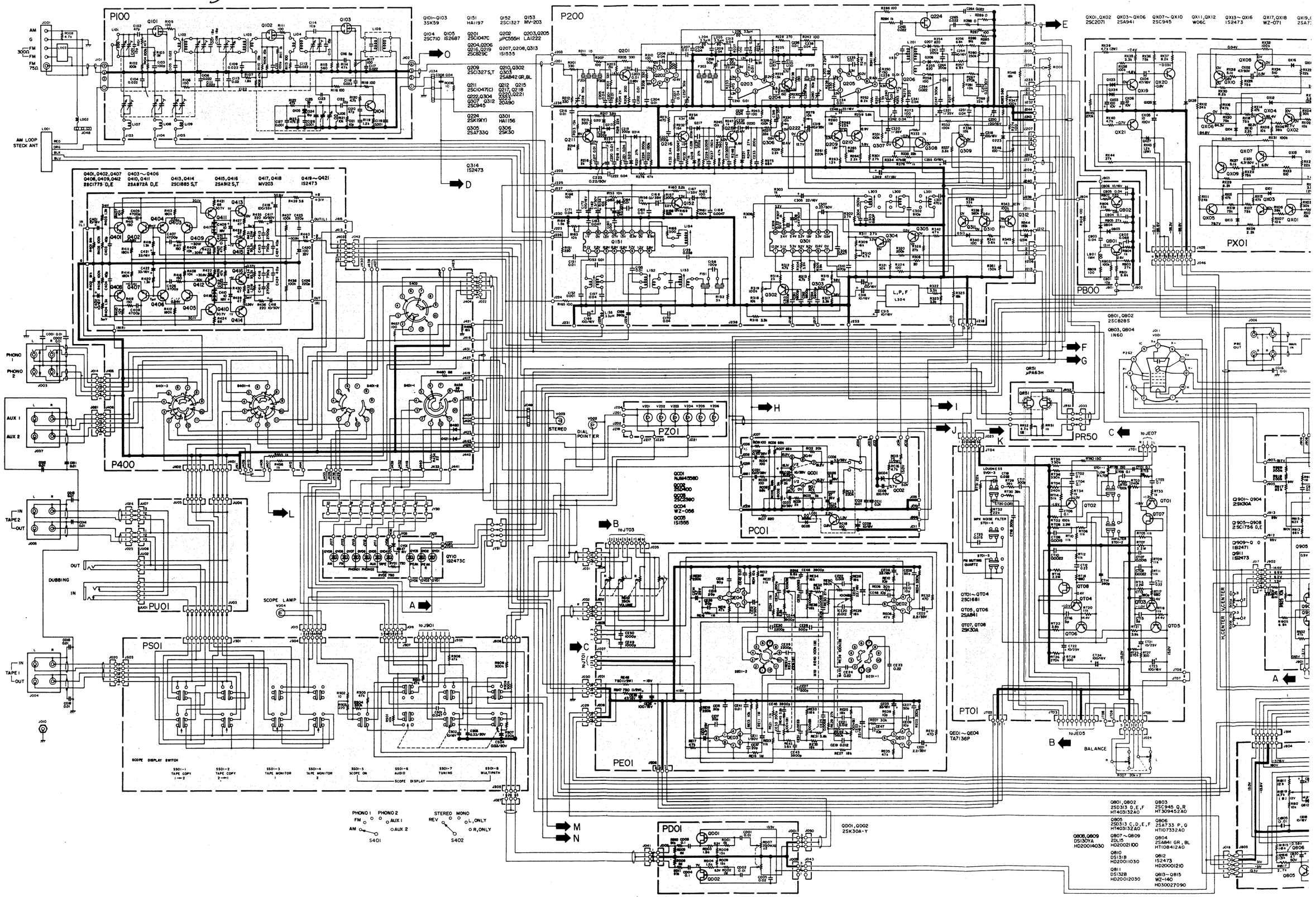
Weight:
- Unit alone . . . . . 30 kg (66 lbs)
- Packed for Shipment . . . . . 32 kg (70.4 lbs)

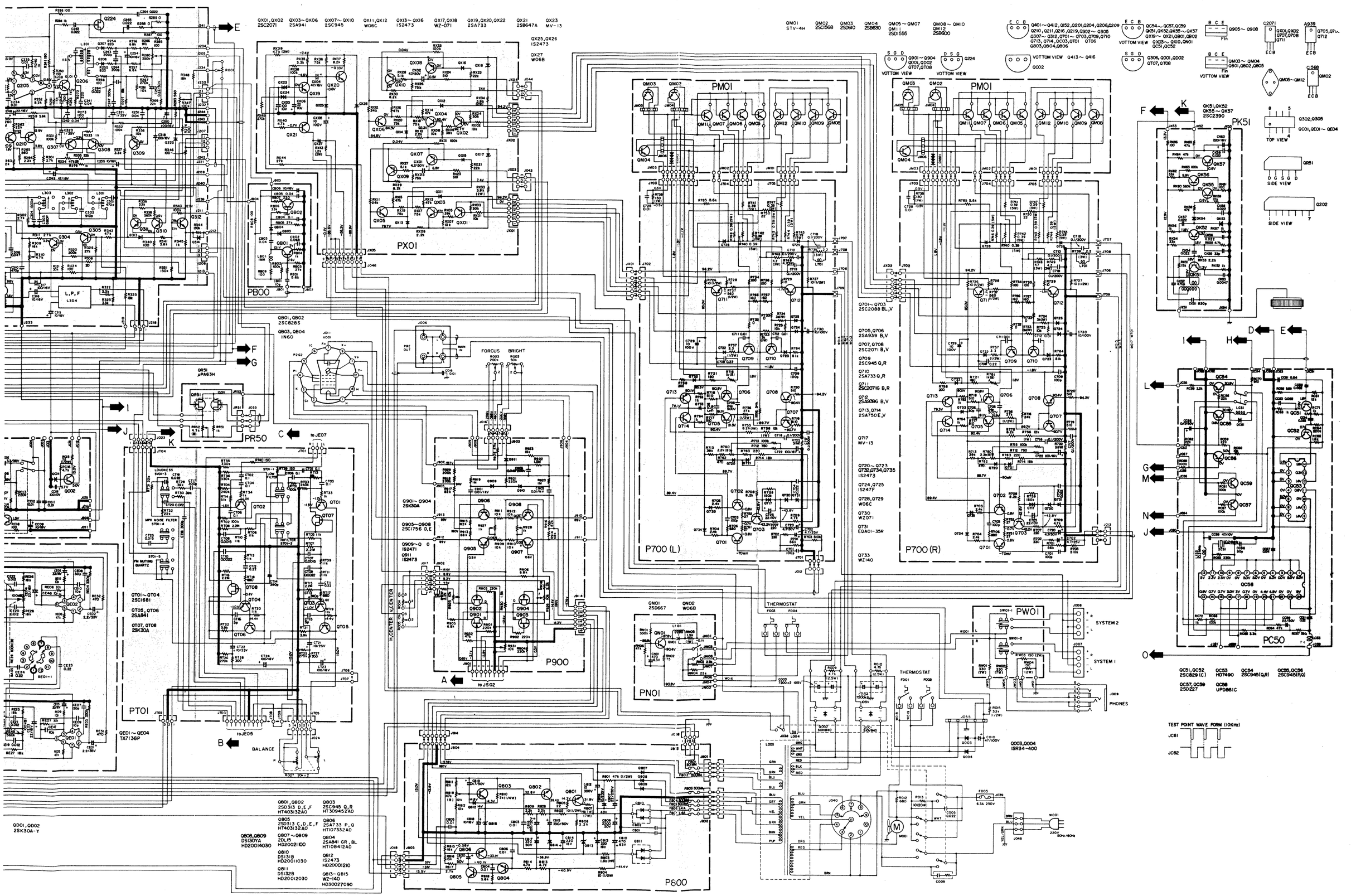
SCHEMATIC DIAGRAM — U.S.A. & CANADA



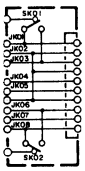

QX01,QX02 2SC2071
QX03~QX06 2SA941
QX07~QX10 2SC945
QX11,QX12 W06C
QX13~QX16 IS2473
QX17,QX18 WZ-021
QX19,QX20 2SA733
QX21 2SB647A
QX23,QX24 MV-13
QX25,QX26 IS2473
QX27 W068
QM01 STV-4H
QM02 2SD568
QM03 2SD610
QM04 2SB630
QM05~QM07 QM11 2SD555
QM08~QM10 QM12 2SB600
Q401~Q412,Q152,Q201,Q204,Q206,Q209 Q210,Q211,Q216,Q219,Q302~Q305 Q307~Q312,Q701~Q703,Q709,Q710 Q713,Q714,QC03,QT01 QT06 Q803,Q804,Q806
QC54~QC57,QC59 QK51,QK52,QK55~QK57 QK19~QX21,Q801,Q802
VOTTOM VIEW QX03~QX10,QN01,QC05,QC52
Q905~Q908 Fin
QM03~QM04 Q801,Q802,Q805
VOTTOM VIEW
Q901~Q904 Q001,Q002 QT07,QT08
VOTTOM VIEW
Q224
VOTTOM VIEW Q413~Q416
QC02
Q306,Q001,Q002 QT07,QT08
QK51,QK52 QK55 QK57 2SC2390
C2071 QX01,QX02 Q707,Q708 Q711
A939 Q705,Q706 Q712
C1568 QM02
QM05~QM12
Q302,Q305 QC01,QE01~QE04
TOP VIEW
QR51
SIDE VIEW
Q202
SIDE VIEW
PK51
PM01
PX01
PB00
PR50
PT01
P700 (L)
P700 (R)
P900
PN01
PW01
PC50
P800
Q224
Q205
Q206
Q209
Q210
Q307
Q308
Q309
Q304
Q305
Q312
Q310
Q303
L,P,F L304
Q201,Q202 2SC828S
Q803,Q804 IN60
QR51 μPA63H
FORCUS
BRIGHT
PRE OUT
MAIN IN
to JE07
LOUDNESS SVOI-3
MPX NOISE FILTER STOI-4
FM MUTING QUARTZ
STOI-5
QT01~QT04 2SC1681
QT05,QT06 2SA841
QT07,QT08 2SK30A
QE01~QE04 TA7136P
to JE05
BALANCE
to JS02
Q901~Q904 2SK30A
Q905~Q908 2SC1756 D,E
Q909,Q910 IS2471
Q911 IS2473
Q801,Q802 2SD313 D,E HT403132A0
Q803 2SC945 O,R HT309452A0
Q805 2SD313 D,E HT403132A0
Q806 2SA733 P,Q HT107332A0
Q807 2DL15 HD20011100
Q804 2SA841 GR,BL HT108412A0
Q810 DS1318 HD20011030
Q812 IS2473 HD20001210
Q811 DS1328 HD20012030
Q813~Q815 WZ-7140 HD30027090
Q808,Q809 DS1016 HD20014030
Q701~Q703 2SC2088 L,V
Q705,Q706 2SA9398,V
Q707,Q708 2SC2071 B,V
Q709 2SC945 Q,R
Q710 2SA733 Q,R
Q711 2SC2071 GB,R
Q712 2SA9398 B,V
Q713,Q714 2SA750 E,V
Q717 MV-13
Q720~Q723 Q732,Q734,Q735 IS2473
Q724,Q725 IS2471F
Q728,Q729 W06C
Q730 WZ071
Q731 EQA01-35R
Q733 WZ140
QN01 2SD667
QN02 W06B
THERMOSTAT
SYSTEM 2
SYSTEM 1
PHONES
SW01-1
SW01-2
JS001
JS039
JO47
JO35
JO36
W001
120V 60Hz
FOR CANADA
R012 820 10W
R018 2.2M (1/2W)
0003,0004 ISR34-400
TEST POINT WAVE FORM (10KHz)
JC61
JC62
For(C)ONLY
QC51,QC52 2SC829(C)
QC53 HD7490
QC54 2SC945(Q,R)
QC55,QC56 2SC945(P,Q)
QC57,QC59 2SD227
QC58 UPD861C

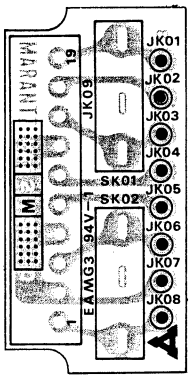
SCHEMATIC DIAGRAM – EUROPE



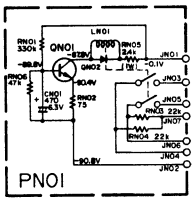

PB00
PX01
PR50
PT01
P700 (L)
P700 (R)
PM01
P900
P800
PN01
PW01
PK51
PC50
to JE07
to JE05
to JS02
BALANCE
FORCUS
BRIGHT
THERMOSTAT
SYSTEM 2
SYSTEM 1
PHONES
TEST POINT WAVE FORM (10KHz)
JC61
JC62
QX25,QX26 IS2473
QX27 W06B
QX01,QX02 2SC2071
QX03~QX06 2SA941
QX07~QX10 2SC945
QX11,QX12 W06C
QX13~QX16 IS2473
QX17,QX18 WZ-071
QX19,QX20,QX22 2SA733
QX21 2SB647A
QX23 MV-13
QM01 STV-4H
QM02 2SD560
QM03 2SD690
QM04 2SB630
QM05~QM07 QM11 2SD1555
QM08~QM10 QM12 2SB600
Q401~Q412,Q152,Q201,Q204,Q206,Q209 Q210,Q211,Q216,Q219,Q302~ Q305 Q307~ Q312,Q701~ Q703,Q709,Q710 Q713, Q714, Q C03, Q T01 Q T06 Q803,Q804,Q806
Q54~Q57,Q59 QK51,QK52,QK55~QK57 QX19~QX21,Q801,Q802 QX03~QX10,QN01 QC51,QC52
Q905~Q908
Q306,Q001,Q002 Q707,Q708
Q001,Q002 Q707,Q708 Q711
Q705,Q7~ Q712
Q901~Q904 Q001,Q002 Q707,Q708
Q224
Q402
Q413~Q416
QC02
QM03~QM04 Q801,Q802,Q805
QM05~QM12
QC68
QM02
QK51,QK52 QK55~QK57 2SC2390
Q302,Q305 QC01,QE01~QE04
QR51
Q202
Q205
Q206
Q210
Q304
Q305
Q307
Q308
Q309
Q310
Q311
Q312
Q801,Q802 2SC828S
Q803,Q804 IN60
QR51 μPA63H
QT01~QT04 2SC1681
QT05,QT06 2SA841
QT07,QT08 2SK30A
QE01~QE04 TA7136P
Q901~Q904 2SK30A
Q905~Q908 2SC1756 D,E
Q909~Q 0 IS2471 Q911 IS2473
Q701~Q703 2SC2088 BL,V
Q705,Q706 2SA939 B,V
Q707,Q708 2SC2071 B,V
Q709 2SC945 Q,R
Q710 2SA733 Q,R
Q711 2SC2071G B,R
Q712 2SA939G B,V
Q713,Q714 2SA750 E,V
Q717 MV-13
Q720~Q723 Q732,Q734,Q735 IS2473
Q724,Q725 IS247F
Q728,Q729 W06C
Q730 WZ071
Q731 EQA01-35R
Q733 WZ140
QN01 2SD667
QN02 W06B
Q801,Q802 2SD313 D,E,F HT403132A0
Q803 2SC945 Q,R HT309452A0
Q805 2SD313 C,D,E,F HT403132A0
Q806 2SA733 P,Q HT107332A0
Q807~Q809 2DL15 HD20021100
Q804 2SA841 GR,BL HT108412A0
Q808,Q809 DS130YA HD20014030
Q810 DS131B HD20011030
Q812 IS2473 HD20001210
Q811 DS132B HD20012030
Q813~Q815 WZ-140 HD30027090
QD01,QD02 2SK30A-Y
QC51,QC52 2SC829 (C)
QC53 HD7490
QC54 2SC945(Q,R)
QC55,QC56 2SC945(R,Q)
QC57,QC59 2SD227
QC58 UPD861C
D003,D004 ISR34-400

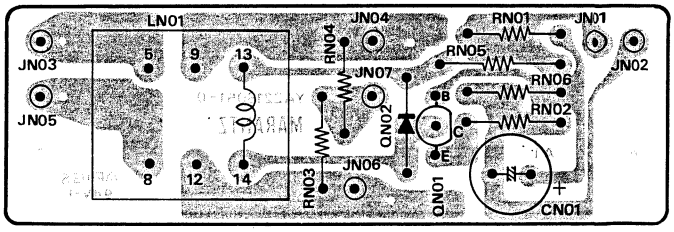
8.11 DOLBY NR SOCKET BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK01 - U.S.A. & CANADA



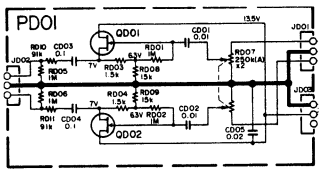


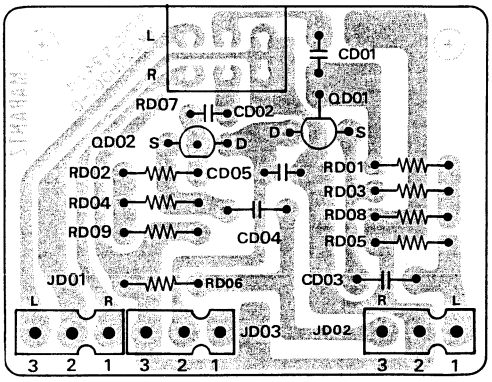
8.12 AUDIO MUTING BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PN01



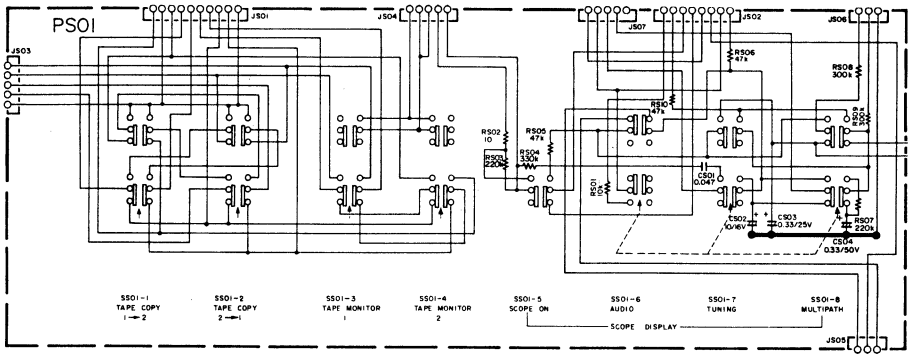


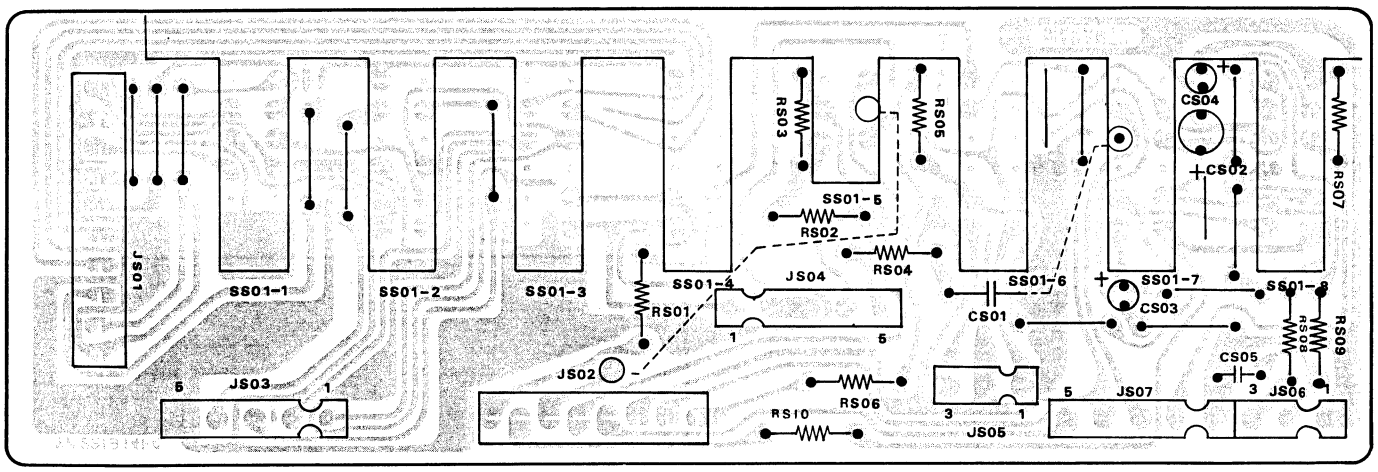
8.13 BUFFER AMP FOR SCOPE INPUT BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PD01



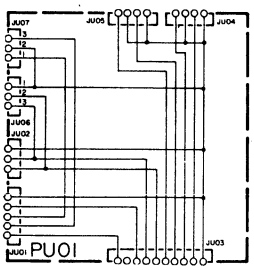


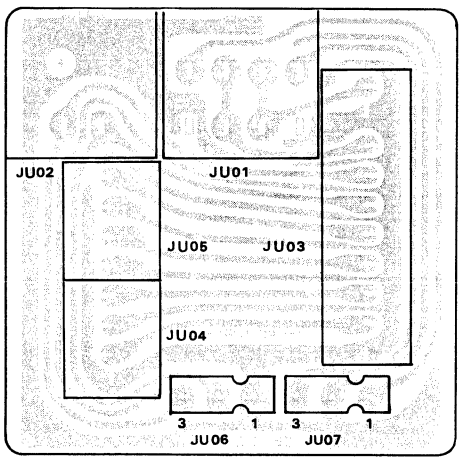
8.14 TAPE COP/TAPE MONITOR/SCOPE DISPLAY SWITCHES BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PS01



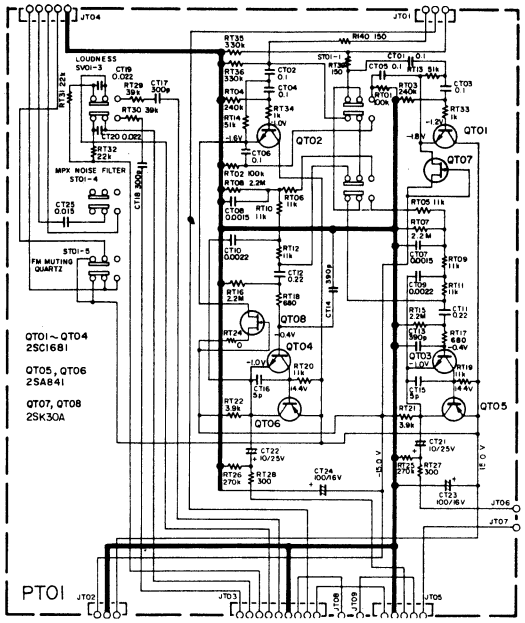


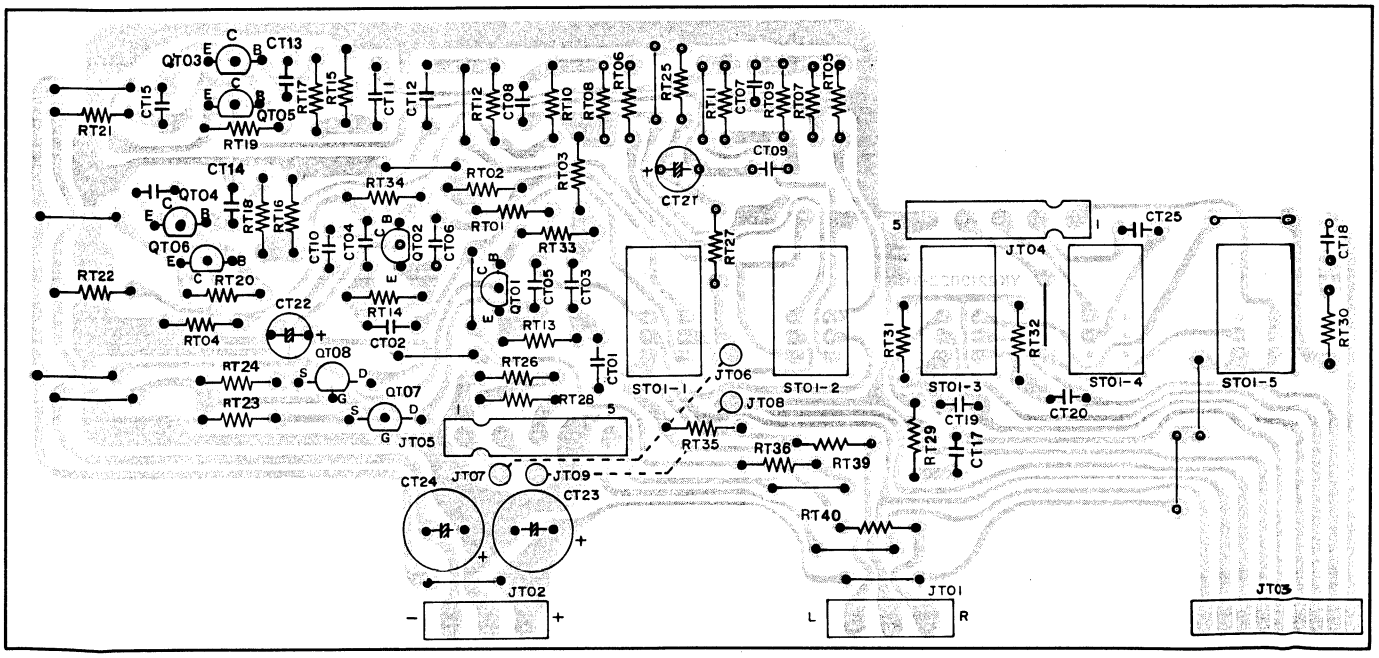
8.15 DUBBING IN/OUT JACKS BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PU01



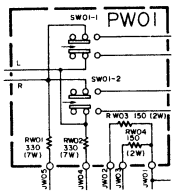


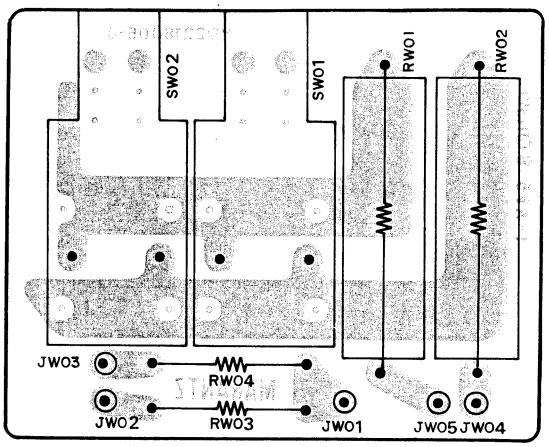
8.16 FILTER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PT01



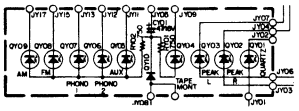


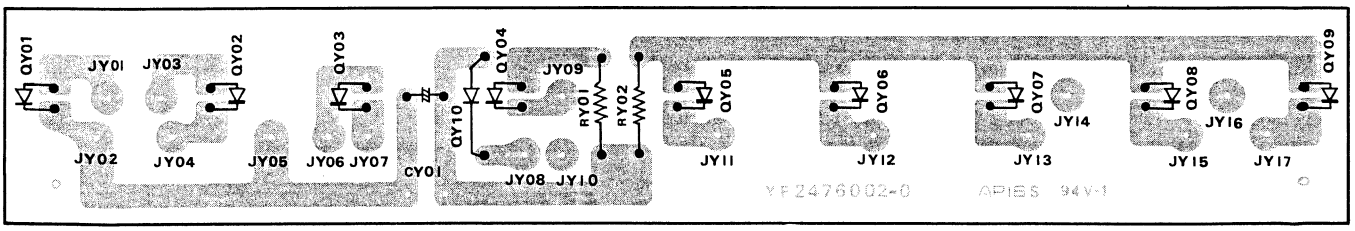
8.17 SPEAKER SYSTEM SWITCHES/ATTENUATOR BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PW01



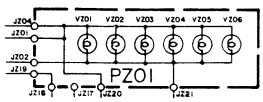


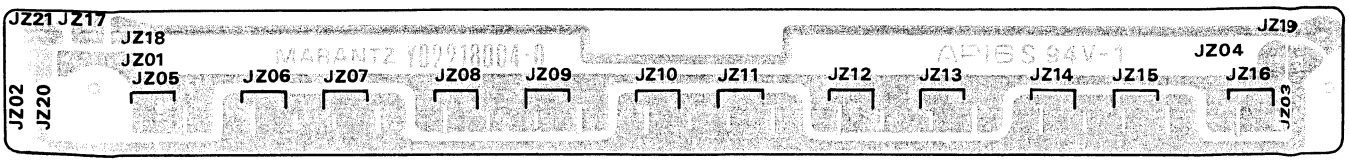
8.18 FUNCTION INDICATOR BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PY01



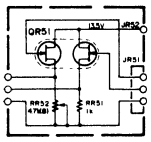


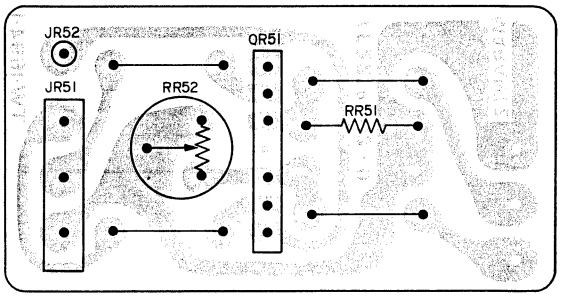
8.19 DIAL LAMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PZ01



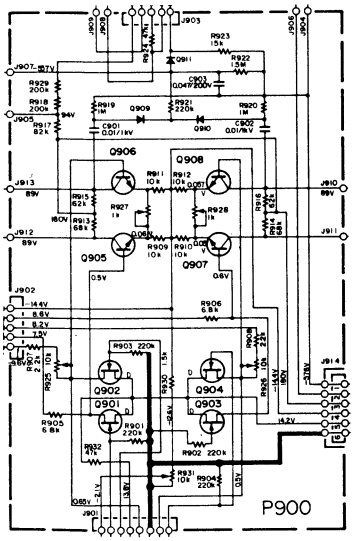


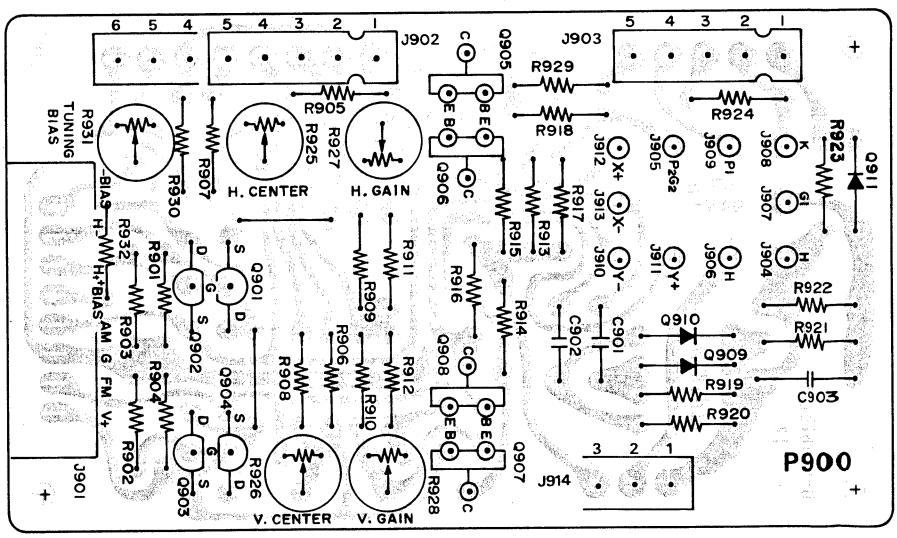
8.20 BUFFER AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PR50



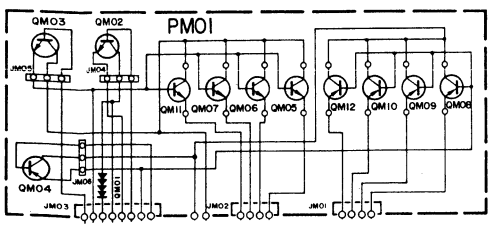


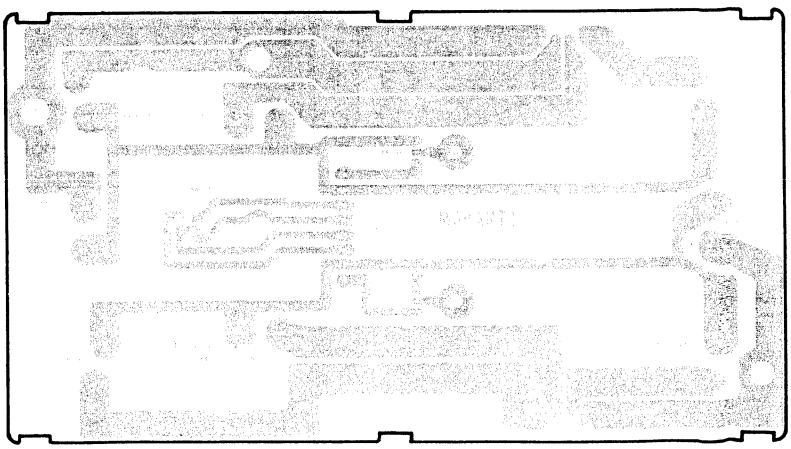
8.21 SCOPE AMP BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - P900



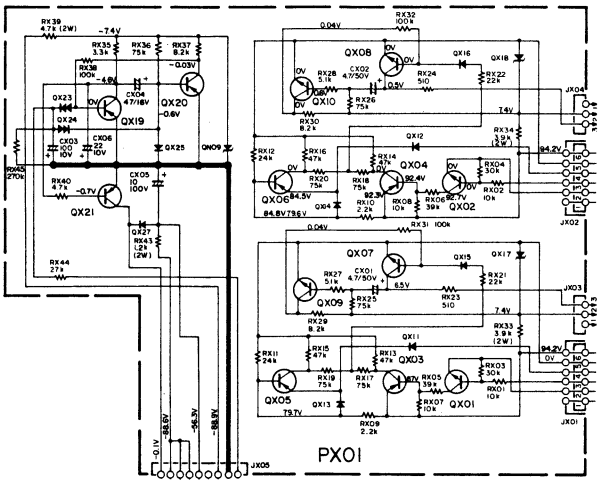


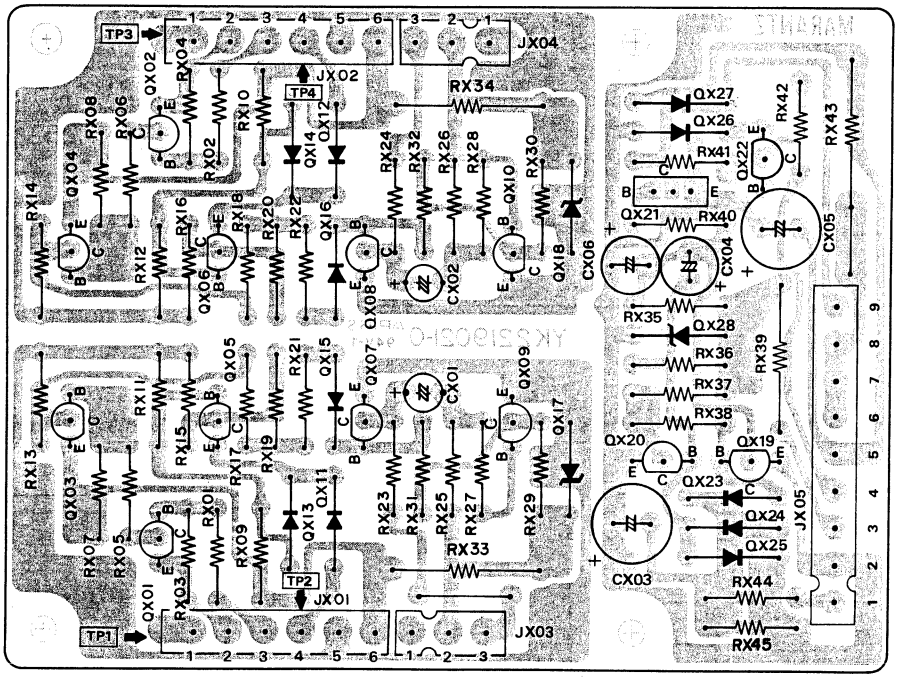
8.22 POWER TRANSISTOR CONNECTION BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PM01



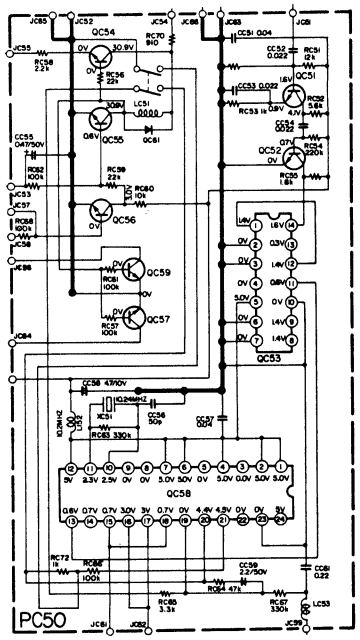


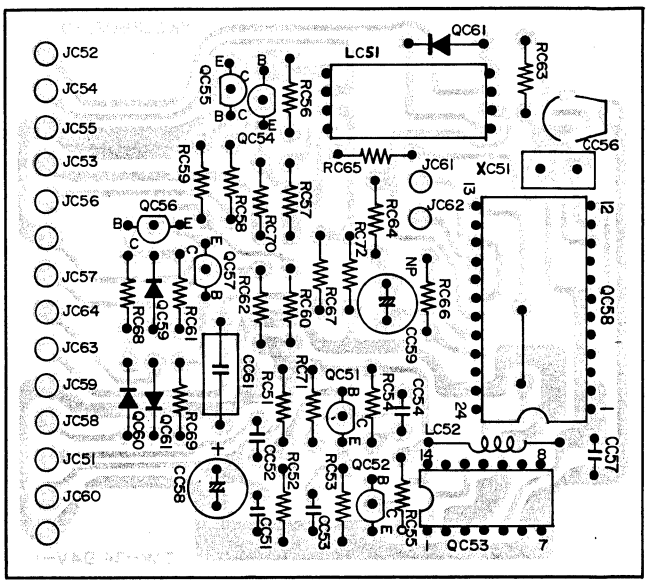
8.23 PEAK INDICATOR/SOFT START BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PX01



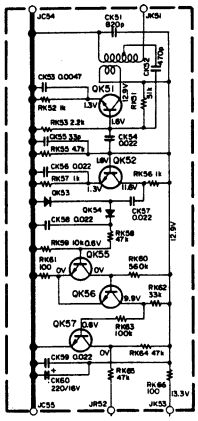


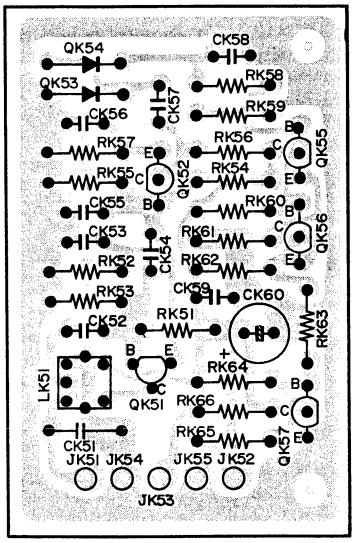
8.24 QUARTZ LOCK BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PC50





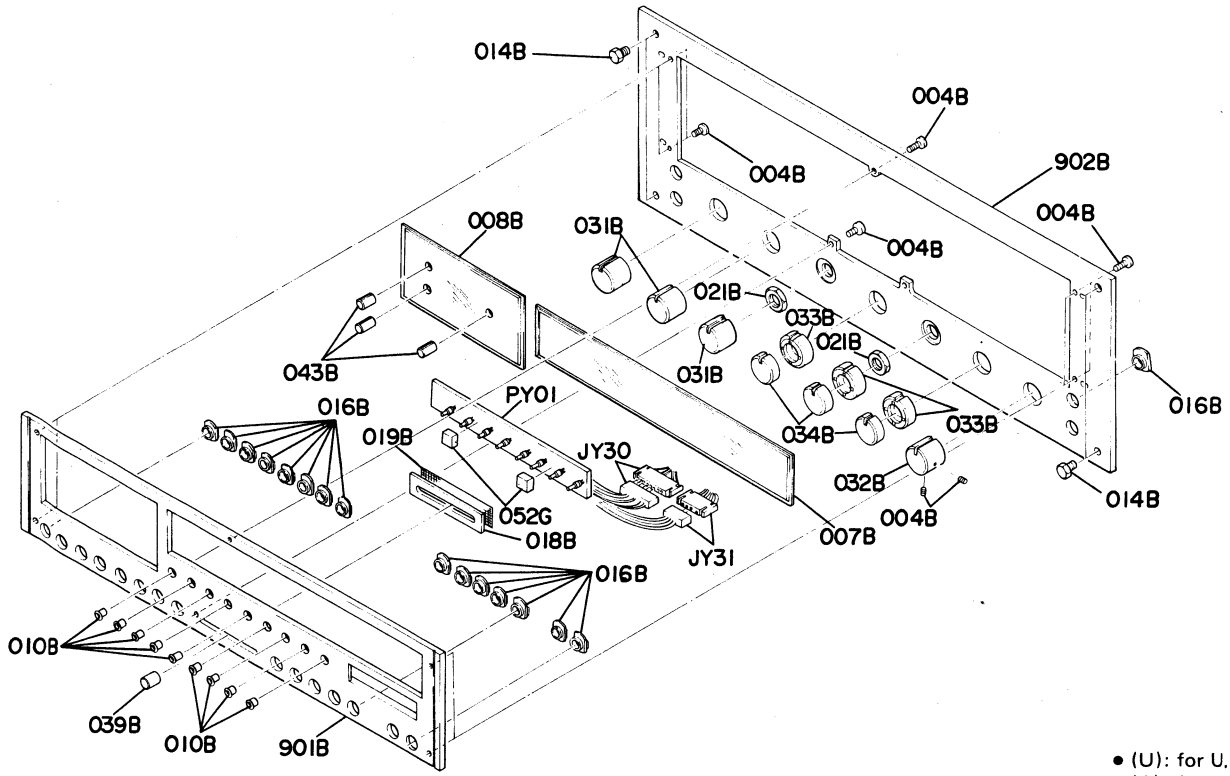
8.25 TOUCH SENSER BOARD SCHEMATIC DIAGRAM AND COMPONENT LOCATIONS - PK51





9. EXPLODED VIEWS AND PARTS LIST

9.1 [C01-99] FRONT PANEL

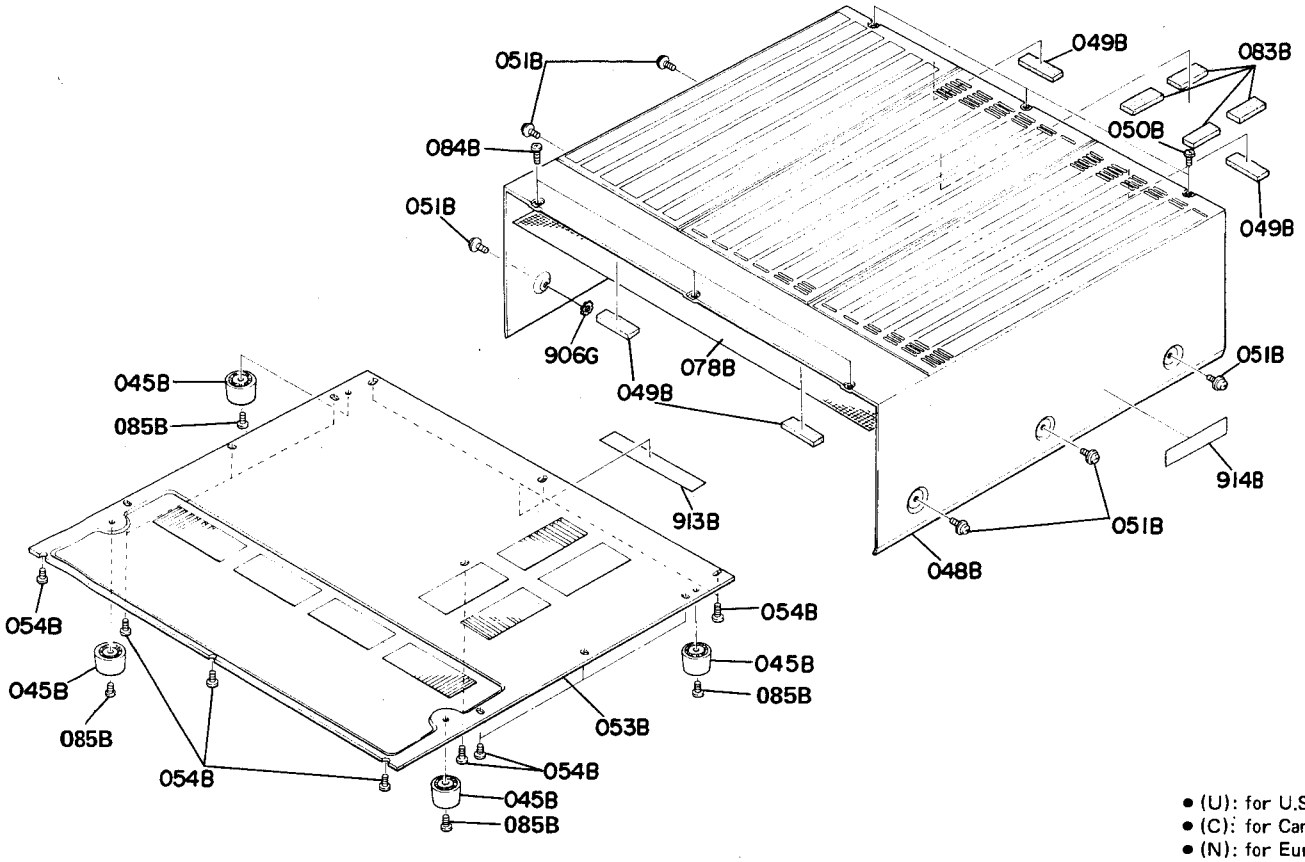


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
A	1	1		2476063400	Front Panel Assembly
A1			1	2476063410	Front Panel Assembly
004B	6	6	6	51280308B0	B.H. Tapped Screw B3 x 8
007B	1	1	1	2219158212	Window, Dial
008B	1	1	1	2219158223	Window, Scope
010B	9	9	9	2979259022	Bushing
016B	16	16	16	2978259012	Bushing
018B	1	1	1	2854259110	Bushing
019B	1	1	1	2219107020	Sheet
901B	1	1	1	2476063020	Escutcheon, Sub
902B	1	1		2476063012	Escutcheon, Main
902B			1	2476063112	Escutcheon, Main

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
014B	4	4	4	52017059J0	H. Head Bolt
021B	2	2	2	53118129G0	Hexagon Nut
031B	3	3	3	2221154230	Knob
032B	1	1	1	2476154010	Knob, Volume
033B	3	3	3	2210154220	Knob
034B	3	3	3	2210154210	Knob
039B	1	1	1	2970154010	Knob, Balance
043B	3	3	3	2219154010	Knob, Scope
044B	2	2	2	51690306Q9	Socket Screw, HP 3 x 6
052G	2	2	2	2207056020	Buffer
PY01	1	1	1	YF24760020	P.W. Board, Function Ind.
	1	1	1	ZZ24760020	P.W. Board Assembly
JY30	1	1	1	YP10002120	Plug
JY30	1	1	1	YP10001690	Plug

9.2 [C02-99] LID (TOP COVER)

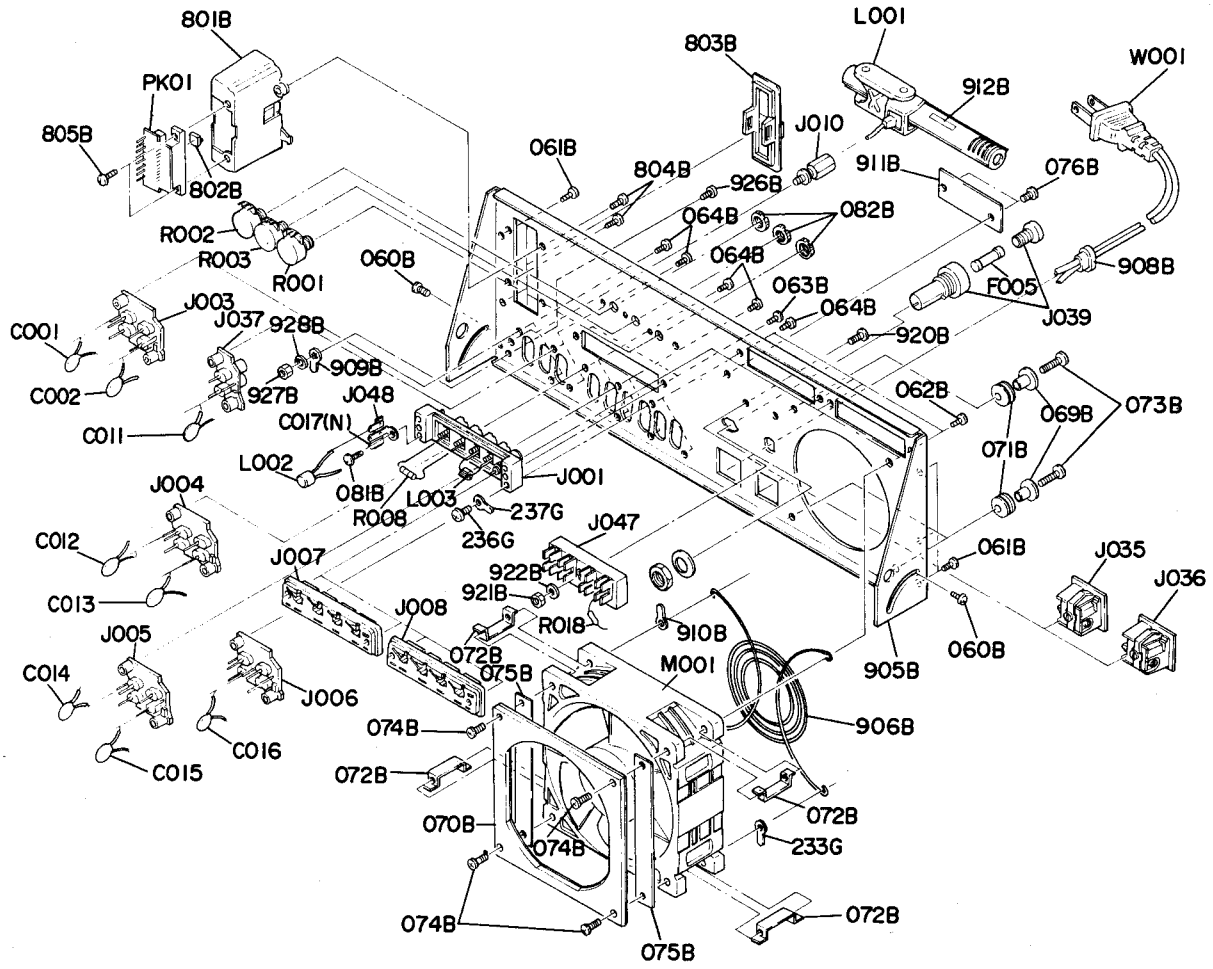


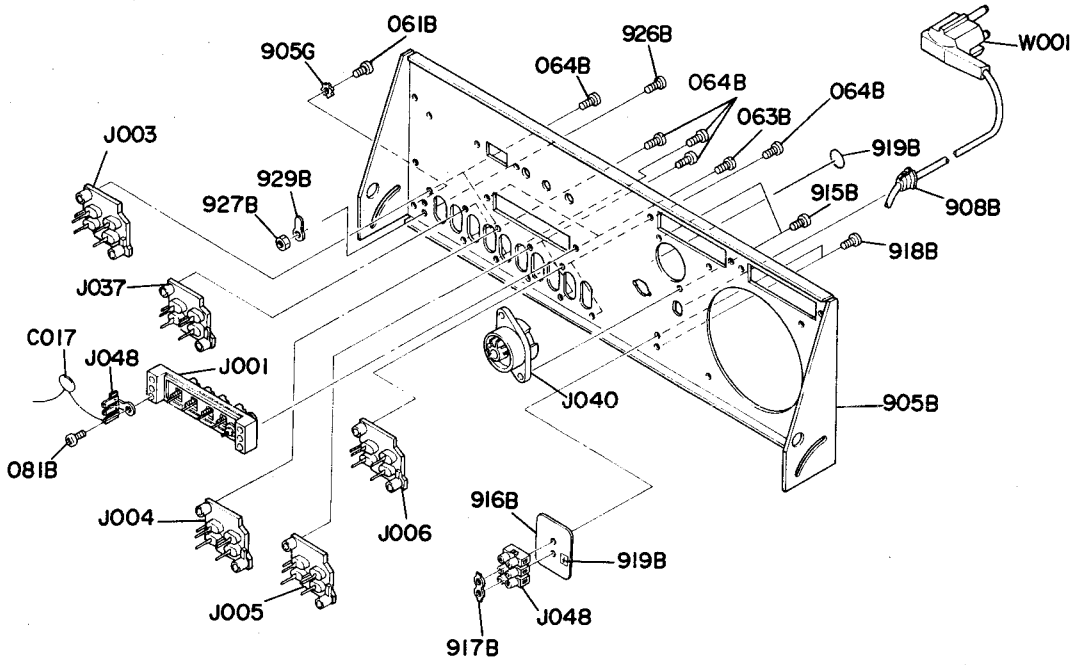
- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
B	1	1	1	2476257400	Lid Assembly, Top Cover
048B	1	1	1	2476257010	Lid
078B	1	1	1	2219202022	Net
083B	4	4	4	2219056020	Buffer
045B	4	4	4	2759057010	Leg
049B	4	4	4	2577118070	Spacer
050B	3	3	3	51280306U0	B.H. Tapped Screw B3 x 6
051B	6	6	6	51480406S9	F. Washer Screw F4 x 6
053B	1	1	1	2476257020	Lid
054B	13	13	13	51280410U0	B.H. Tapped Screw B4 x 10
084B	3	3	3	51100306S9	B.H.M. Screw B3 x 6
085B	4	4	4	51570410B0	P. TAPT. Screw P4 x 10

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
913B	1		1	2578861010	Label
913B		1		2911861110	Label
914B		1		2911861140	Label
914B	1		1	2932861010	Label
906G			1	54050400R0	T.L. Washer, OR

9.3 [C03-99] REAR PANEL



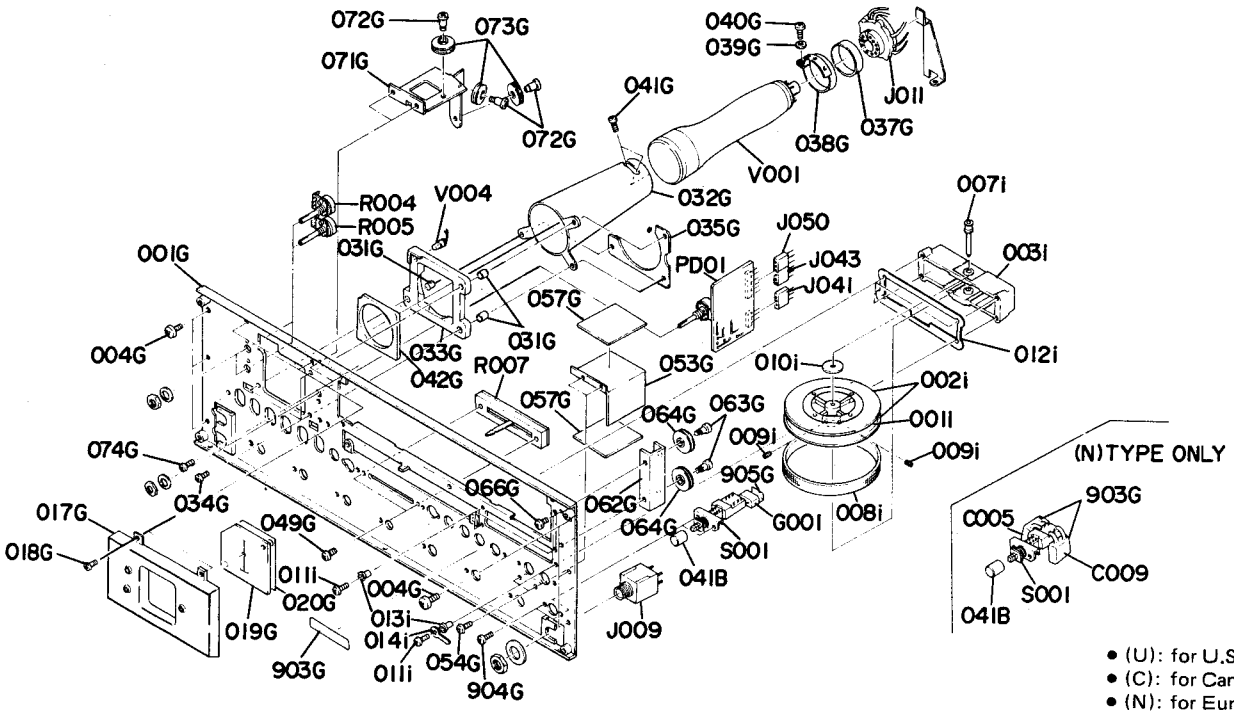


- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
060B	2	2	2	51280408B0	B.H. Tapped Screw B4 x 8
061B	6	6	6	51280306U0	B.H. Tapped Screw B3 x 6
062B	4	4	4	51280308U0	B.H. Tapped Screw B3 x 8
063B	2	2	2	51280308U0	B.H. Tapped Screw B3 x 8
064B	10	10	10	51280308U0	B.H. Tapped Screw B3 x 8
069B	4	4	4	2219055010	Collar
070B	1	1	1	2219118010	Spacer
071B	4	4	4	2219259020	Bushing
072B	4	4	4	2219160040	Bracket
073B	4	4	4	51100325S9	B.H.M. Screw B3 x 25
074B	4	4	4	51100310E9	B.H.M. Screw B3 x 10
075B	2	2	2	2219269010	Protector
076B	2	2	2	51760306B0	OS Tapped Screw 3 x 6
081B	1	1	1	51280306BU	B.H. Tapped Screw B3 x 6
082B	3	3	3	53228059E0	S.C. Nut
801B	1	1		2218271050	Holder
802B	1	1		2218258010	Hook
803B	1	1		2218257030	Lid
804B	2	2		51280308U0	B.H. Tapped Screw B3 x 8
805B	2	2		51282608A0	B.H. Tapped Screw B2.6 x 8
905B	1			2476160210	Bracket, Rear Panel
905B			1	2476160220	Bracket, Rear Panel
905B		1		2476160230	Bracket, Rear Panel
906B	1		1	2219202010	Net
906B		1		2219202100	Net
908B	1			1455259090	Bushing
908B		1		1455259100	Bushing
908B			1	2286259110	Bushing
909B	1	1	1	62030039W0	Lug
910B		1		62040029W0	Lug
911B	1			2476265010	Indicator
911B			1	2476265020	Indicator
911B		1		2476265030	Indicator
912B	1		1	2506265060	Indicator
912B		1		2911861170	Indicator
915B			2	51100308S9	B.H.M. Screw B3 x 8
916B			1	4113120010	Insulator
917B			1	2970005010	Clamper
918B			2	51100316S9	B.H.M. Screw B3 x 16
919B			1	2882861020	Label
920B	1	1		51100310S9	B.H.M. Screw B3 x 10
920B			1	62051870W0	Lug
921B	1	1		53110303E9	Hexagon Nut
922B	1	1		54020301A0	Flat Washer, P
926B	1	1		51100308S9	B.H.M. Screw B3 x 8
926B			1	51100308B9	B.H.M. Screw B3 x 8
927B	1	1	1	53110303E9	Hexagon Nut
928B	1	1	1	54040302N0	Spring Washer
929B			1	2211123110	Contactor
233G	1	1	1	62030049W0	Lug
236G	1	1	1	51280306U0	B.H. Tapped Screw B3 x 6
237G	1	1	1	62030049W0	Lug
905G			1	54050300R0	T.L. Washer, OR

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
C001	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C002	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C011	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C012	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C013	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C014	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C015	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
C016	1	1	1	DK17103010	Ceramic Cap. 0.01μF ±20%
F005			1	FS10630800	Fuse
F005	1	1		FS11500020	Fuse, 15A 250V
J001	1	1		BY04050010	Terminal
J001			1	BY04050020	Terminal
J003	1	1	1	YT02040190	Terminal
J004	1	1	1	YT02040140	Terminal
J005	1	1	1	YT02040140	Terminal
J006	1	1	1	YT02040170	Terminal
J007	1	1	1	YT03040160	Terminal
J008	1	1	1	YT03040160	Terminal
J010	1	1	1	YL03010240	Terminal, Ground
J035	1	1		YJ04000560	Jack, AC outlet
J036	1	1		YJ04000560	Jack, AC Outlet
J037	1	1		YT02020140	Terminal, (2P)
J037			1	YT02040140	Terminal, (4P)
J039			1	YJ08000220	Jack, Fuse Holder
J039	1	1		YJ08000240	Jack, Fuse Holder
J040			1	BY03110010	Plug, Voltage Selector
J047	1	1		YL01040180	Terminal
J048	1	1	1	YL01030210	Terminal
J048			1	YL09030010	Terminal
L001	1	1	1	LF11200600	Ant, Coil, AM Ant.
L002	1	1	1	LC11540020	Choke Coil
L003	1	1	1	LB30075260	Balun Coil
M001	1		1	MI01150010	A.C. Motor
M001		1		MI01150020	A.C. Motor
R001	1	1	1	RK02030160	Variable Resistor 20KΩ (B)
R002	1	1	1	RA05030180	Trimming Resistor 50KΩ (B)
R003	1	1	1	RK02040060	Variable Resistor 200KΩ (B)
R008	1	1	1	RT05472140	Resistor 4.7KΩ ±5% ¼W
W001			1	YC01800140	A.C. Power Cord
W001	1			YC02000160	A.C. Power Cord
W001		1		YC02400170	A.C. Power Cord
C017			1	DK18103010	Ceramic Cap. 0.01μF ±20%

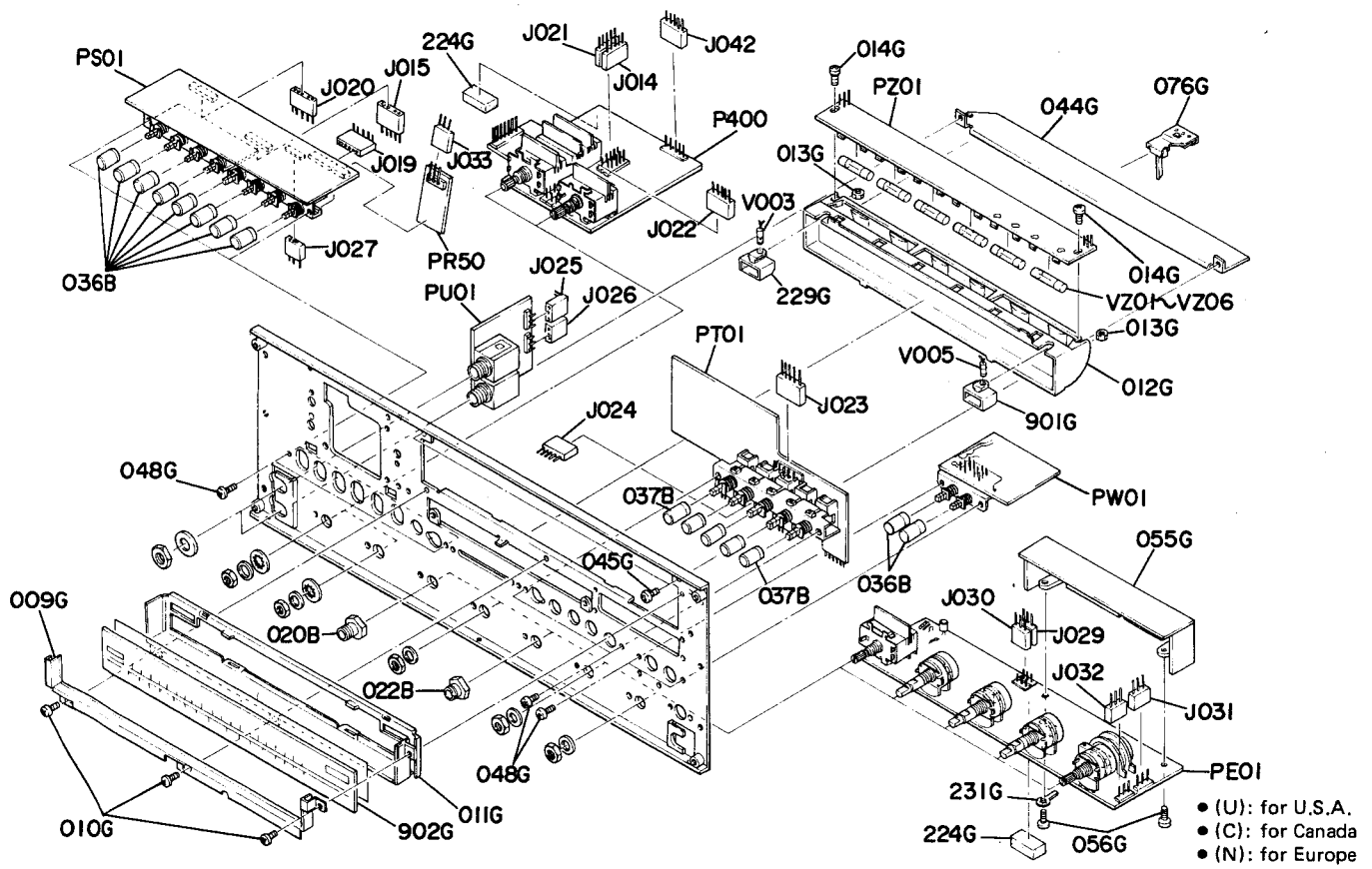
9.4 [P01-99] FRONT CHASSIS AND GENERAL PARTS



REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
C	1	1	1	2219401400	Frame Assembly, Scope
017G	1	1	1	2219401013	Frame
019G	1	1	1	2904302022	Dial
020G	1	1	1	2904303014	Mask
041B	1	1	1	2970154030	Knob, Power
001G	1	1	1	2476160100	Bracket, Front
004G	6	6	6	51280408B0	B.H. Tapped Screw B4 x 8
018G	2	2	2	51280306U0	B.H. Tapped Screw B3 x 6
031G	3	3	3	2219055020	Collar
032G	1	1	1	2219109010	Shield
033G	1	1	1	2219357010	Rod
034G	3	3	3	51100316A9	B.H.M. Screw B3 x 16
035G	1	1	1	2207005010	Clamper
037G	1	1	1	2904056020	Buffer
038G	1	1	1	2904005030	Clamper
039G	1	1	1	54020301S0	Flat Washer, P
040G	1	1	1	5110308S9	B.H.M. Screw B3 x 8
041G	2	2	2	5110304S9	B.H.M. Screw B3 x 4
042G	1	1	1	2219053030	Cover
049G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
053G	1	1	1	2207109020	Shield
054G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
057G	2	2	2	2207120010	Insulator
062G	1	1	1	2218160150	Bracket
063G	2	2	2	51103029A0	B.H.M. Screw
064G	2	2	2	2991262010	Pulley
066G	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
071G	1	1	1	2218160160	Bracket
072G	3	3	3	51103029A0	B.H.M. Screw
073G	3	3	3	2991262010	Pulley

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
074G	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
903G	1	1		2991861010	Label
903G			2	3926120010	Insulator
904G	2	2	2	51100306A9	B.H.M. Screw B3 x 6
905G	1	1		2219120010	Insulator
001i	1	1	1	2219273010	Flywheel
002i	2	2	2	2219063030	Escutcheon
003i	1	1	1	2219104500	Retainer
007i	1	1	1	2219112010	Shaft
008i	1	1	1	2286353010	Ring
009i	2	2	2	51690306Q9	Socket Screw, HP 3 x 6
010i	1	1	1	59031405G9	Washer
011i	4	4	4	51280308B0	B.H. Tapped Screw B3 x 8
012i	1	1	1	2286120010	Insulator
013i	4	4	4	2219259030	Bushing
014i	1	1	1	62030039W0	Lug
C005			1	DF17223800	Film Cap. 0.02μF 1000V
C009			1	DF17223800	Film Cap. 0.02μF • 1000V
G001	1			BF10400030	Cap. Comp. 0.1μF + 120Ω
G001		1		BF10400050	Cap. Comp. 0.1μF + 120Ω
J009	1	1	1	YJ01001060	Jack, Headphone
J011	1	1	1	YJ05000180	Jack, CRT Socket
J041	1	1	1	YJ06001040	Jack, (3P)
J043	1	1	1	YJ06001040	Jack, (3P)
J050	1	1	1	YJ06001040	Jack, (3P)
R004	1	1	1	RB01030240	Variable Resistor, 10KΩ (B)
R005	1	1	1	RB01030240	Variable Resistor, 10KΩ (B)
R007	1	1	1	RS02030110	Variable Resistor, 20KΩ
S001	1	1		SP04010230	Push Switch, Power
S001			1	SP04010250	Push Switch, Power
V001	1	1	1	VB00235010	Picture Tube
V004	1	1	1	IN10080340	Lamp 60mA 8V

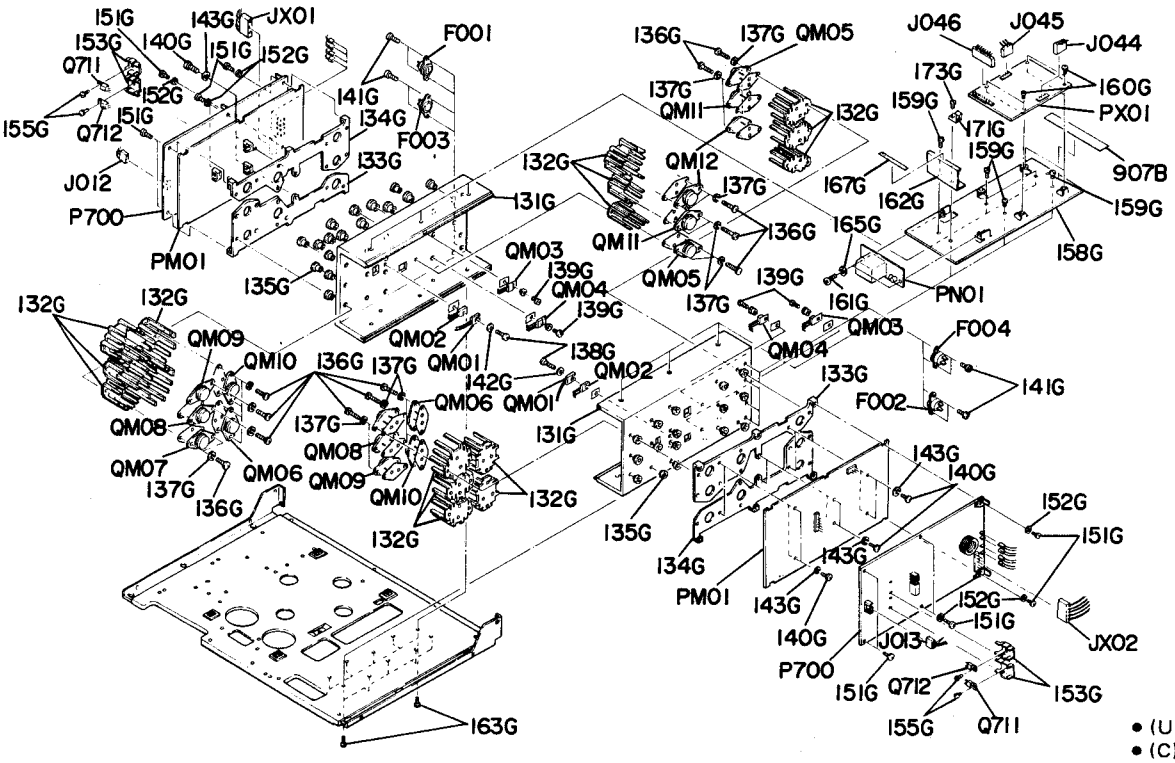
9.5 [P02-99] ASSEMBLED P.W. BOARDS AND OTHER PARTS



REF. DEISG.	Q'TY U	C	N	PART NO.	DESCRIPTION
036B	10	10	10	2218154010	Knob
037B	5	5	5	2218154020	Knob
009G	1	1	1	2218271010	Holder
010G	3	3	3	51280306B0	B.H. Tapped Screw B3 x 6
011G	1	1	1	2219053020	Cover
012G	1	1	1	2218274010	Reflector
013G	2	2	2	53110303E9	Hexagon Nut
014G	2	2	2	51100308S9	B.H.M. Screw B3 x 8
044G	1	1	1	2218051010	Guide
045G	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
048G	6	6	6	51100306A9	B.H.M. Screw B3 x 6
055G	1	1	1	2207109010	Shield
056G	2	2	2	51280306B0	B.H. Tapped Screw B3 x 6
076G	1	1	1	2218103500	Pointer
224G	2	2	2	2218056010	Buffer
229G	1	1	1	2218274030	Reflector
231G	1	1	1	62030039W0	Lug
901G	1	1		2218274030	Reflector
902G	1	1		2218302010	Dial
902G			1	2218302020	Dial
020B	1	1	1	2219101010	Support
022B	1	1	1	2219101020	Support

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
J014	1	1	1	YJ06001050	Jack, (5P)
J015	1	1	1	YJ06001050	Jack, (5P)
J019	1	1	1	YJ06001250	Jack, (5P)
J020	1	1	1	YJ06001050	Jack, (5P)
J021	1	1	1	YJ06001050	Jack, (5P)
J022	1	1	1	YJ06001050	Jack, (5P)
J023	1	1	1	YJ06001050	Jack, (5P)
J024	1	1	1	YJ06001050	Jack, (5P)
J025	1	1	1	YJ06001050	Jack, (5P)
J026	1	1	1	YJ06001050	Jack, (5P)
J027	1	1	1	YJ06001050	Jack, (5P)
J029	1	1	1	YJ06001040	Jack, (3P)
J030	1	1	1	YJ06001040	Jack, (3P)
J031	1	1	1	YJ06001040	Jack, (3P)
J032	1	1	1	YJ06001040	Jack, (3P)
J033	1	1	1	YJ06001240	Jack, (3P)
J042	1	1	1	YJ06001050	Jack, (5P)
V003	1	1	1	IN10080340	Lamp, Stereo 50mA 8V
V005	1	1		IN10080340	Lamp, Dolby 50mA 8V
VZ01 ~ VZ06	6	6	6	IN10080070	Lamp, Dial 0.2A 8V

9.6 [P03-99] POWER TRANSISTOR AND HEATSINK



- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION	
131G	2	2	2	2219267010	Heatsink	
132G	16	16	16	2219267030	Heatsink	
133G	2	2	2	2219160100	Bracket	
134G	2	2	2	2219160110	Bracket	
135G	32	32	32	2219259010	Bushing	
136G	32	32	32	51100316A9	B.H.M. Screw	B3 x 16
137G	32	32	32	54040302N0	Spring Washer	
138G	2	2	2	51280312U0	B.H. Tapped Screw	B3 x 12
139G	4	4	4	51280308U0	B.H. Tapped Screw	B3 x 8
140G	12	12	12	51100305E9	B.H.M. Screw	B3 x 5
141G	8	8	8	51280306B0	B.H. Tapped Screw	B3 x 6
142G	2	2	2	54020301A0	Flat Washer, P	
143G	12	12	12	54040302N0	Spring Washer	
151G	12	12	12	51100306E9	B.H.M. Screw	B3 x 6
152G	8	8	8	54040302N0	Spring Washer	
153G	4	4	4	2218267040	Heatsink	
155G	4	4	4	51280308B0	B.H. Tapped Screw	B3 x 8
158G	1	1	1	2219160080	Bracket	
159G	5	5	5	51280306U0	B.H. Tapped Screw	B3 x 6
160G	4	4	4	51280306U0	B.H. Tapped Screw	B3 x 6
161G	2	2	2	51280306U0	B.H. Tapped Screw	B3 x 6
162G	1	1	1	2207269010	Protector	
163G	10	10	10	51280308B0	B.H. Tapped Screw	B3 x 8
165G	2	2	2	59030805P0	Washer	
167G	1	1	1	2219118020	Spacer	
171G	1	1	1	2887005010	Clamper	
173G	1	1	1	51280308U0	B.H. Tapped Screw	B3 x 8
907B		1		2219123020	Contactor	
907B	1			2476269010	Protector	

REF. DEISG.	Q'TY U	C	N	PART NO.	DESCRIPTION	
F001	1	1	1	FR30600020	Circuit Breaker	20704F
F002	1	1	1	FR30600020	Circuit Breaker	20704F
F003	1	1	1	FR30880010	Circuit Breaker	20704L
F004	1	1	1	FR30880010	Circuit Breaker	20704L
J012	1	1	1	YJ06001390	Jack, (3P)	
J013	1	1	1	YJ06001400	Jack, (3P)	
J044	1	1	1	YJ06001240	Jack, (3P)	
J045	1	1	1	YJ06001240	Jack, (3P)	
J046	1	1	1	YJ06001430	Jack, (9P)	
JX01	1	1	1	YJ06001300	Jack, (6P)	
JX02	1	1	1	YJ06001320	Jack, (6P)	
Q711	2	2	2	HT320713A0	Transistor 2SC2071 (G, B or V)	
Q712	2	2	2	HT109393A0	Transistor	
QM01	2	2	2	HV00007080	Varistor	STV-4H
QM02	2	2	2	HT315682B0	Transistor	2SC1568 (R or S)
QM03	2	2	2	HT406103C0	Transistor	2SD610 (S,R,Q)
QM04	2	2	2	HT206303C0	Transistor	2SB630 (S,R,Q)
QM05	2	2	2	HT405553B0	Transistor	2SD555 (S,R,Q)
QM06	2	2	2	HT405553B0	Transistor	2SD555 (S,R,Q)
QM07	2	2	2	HT405553B0	Transistor	2SD555 (S,R,Q)
QM08	2	2	2	HT206003B0	Transistor	2SB600 (S,R,Q)
QM09	2	2	2	HT206003B0	Transistor	2SB600 (S,R,Q)
QM10	2	2	2	HT206003B0	Transistor	2SB600 (S,R,Q)
QM11	2	2	2	HT405553B0	Transistor	2SD555 (S,R,Q)
QM12	2	2	2	HT206003B0	Transistor	2SB600 (S,R,Q)

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
C211	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C212	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C213	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C214	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C215	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C216	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C217	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C218	1	1	1	DD15201360	Ceramic 200pF ±5%
C219	1	1	1	DD15201360	Ceramic 200pF ±5%
C220	1	1	1	DK17103010	Ceramic 0.01μF ±20%
C221	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C222	1	1	1	DK18403020	Ceramic 0.04μF
C223	1	1	1	EQ22405010	Elect 0.22μF 50V
C224	1	1	1	DD15201360	Ceramic 200pF ±5%
C225	1	1	1	DD16201010	Ceramic 200pF ±10%
C226	1	1	1	DK16472300	Ceramic 0.0047μF ±10%
C227	1	1	1	DK18403020	Ceramic 0.04μF
C228	1	1	1	DD16201010	Ceramic 200pF ±10%
C229	1	1	1	DK16152300	Ceramic 0.0015μF ±10%
C230	1	1	1	DD16201010	Ceramic 200pF ±10%
C231	1	1	1	DK16472010	Ceramic 0.0047μF ±10%
C232	1	1	1	DD16201010	Ceramic 200pF ±10%
C233	1	1	1	DD15201360	Ceramic 200pF ±5%
C234	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C235	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C236	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C237	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C238	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C239	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C240	1	1	1	DK17103300	Ceramic 0.01μF ±20%
C241	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C242	1	1	1	DK18403020	Ceramic 0.04μF
C243	1	1	1	DD15201360	Ceramic 200pF ±5%
C244	1	1	1	DD15201360	Ceramic 200pF ±5%
C247	1	1	1	DD16501010	Ceramic 500pF ±10%
C248	1	1	1	EA22601690	Elect 22μF 16V
C249	1	1	1	EA47601690	Elect 47μF 16V
C250	1	1	1	EA10701690	Elect 100μF 16V
C251	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C252	1	1	1	EQ22405010	Elect 0.22μF 50V
C253	1	1	1	EA10601690	Elect 10μF 16V
C254	1	1	1	EA10601690	Elect 10μF 16V
C255	1	1	1	EA10601690	Elect 10μF 16V
C256	1	1	1	CT15000010	Trimming 50pF
C257	1	1	1	CT15000010	Trimming 50pF
C258	1	1	1	CT15000010	Trimming 50pF
C259	1	1	1	CT15000010	Trimming 50pF
C260	1	1	1	CT15000010	Trimming 50pF
C261	1	1	1	DK18403320	Ceramic 0.04μF +100%–0
C262	1	1	1	DK18403010	Ceramic 0.04μF +100%–0
C263	1	1	1	DK18223310	Ceramic 0.022μF
C264	1	1	1	DK18223310	Ceramic 0.022μF
C265	1	1	1	DK18223310	Ceramic 0.022μF
C301	1	1	1	DF55471010	Film 470pF ±5%
C302	1	1	1	DF55911010	Film 910pF ±5%
C303	1	1	1	DF55681010	Film 680pF ±5%
C304	1	1	1	DF55152030	Film 1500pF ±5%
C305	1	1	1	EA22601690	Elect 22μF 16V
C306	1	1	1	DF17473300	Film 0.047μF ±20%
C307	1	1	1	EQ22405010	Elect 0.22μF 50V

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
C308	1	1	1	EQ47405010	Elect 0.47μF 50V
C309	1	1	1	EQ22405010	Elect 0.22μF 50V
C310	1	1	1	DF55471010	Film 470pF ±5%
C311	1	1		DF15272050	Film 2700pF ±5%
C311			1	DF15562050	Film 5600pF ±5%
C312	1	1		DF15272050	Film 2700pF ±5%
C312			1	DF15562050	Film 5600pF ±5%
C313	1	1		DF15562050	Film 5600pF ±5%
C314	1	1		DF15562050	Film 5600pF ±5%
C315	1	1	1	EA10601690	Elect 10μF 16V
C316	1	1	1	EA10601690	Elect 10μF 16V
C317	1	1	1	EA10701690	Elect 100μF 16V
C318	1	1	1	EA10701690	Elect 100μF 16V
C319	1	1	1	EV10403560	Elect 0.1μF 35V
C320	1	1	1	EV10503560	Elect 1μF 35V
C321	1	1	1	EV10503560	Elect 1μF 35V
					P200-RESISTORS
					(All Resistors are ±5% and ¼W)
R151	1	1	1	RT05201140	220Ω
R152	1	1	1	RT05302140	3KΩ
R153	1	1	1	RT05103140	10KΩ
R154	1	1	1	RT05103140	10KΩ
R155	1	1	1	RT05301140	300Ω
R156	1	1	1	RT05102140	1KΩ
R157	1	1	1	RT05204140	200KΩ
R158	1	1	1	RT05823140	82KΩ
R159	1	1	1	RT05102140	1KΩ
R160	1	1	1	RT05222140	2.2KΩ
R161	1	1	1	RT05104140	100KΩ
R162	1	1	1	RT05101140	100Ω
R163	1	1	1	RA01030250	Trimming 10KΩ
R164	1	1	1	RT05152140	1.5KΩ
R165	1	1	1	RT05101140	100Ω
R166	1	1	1	GF05101140	100Ω
R201	1	1	1	RT05331140	330Ω
R202	1	1	1	RT05331140	330Ω
R203	1	1	1	RT05153140	15KΩ
R204	1	1	1	RT05202140	2KΩ
R205	1	1	1	RT05331140	330Ω
R206	1	1	1	RT05201140	200Ω
R207	1	1	1	RT05101140	100Ω
R208	1	1	1	RT05331140	330Ω
R209	1	1	1	RT05331140	330Ω
R210	1	1	1	RT05101140	100Ω
R211	1	1	1	GF05100140	10Ω
R212	1	1	1	RT05331140	330Ω
R213	1	1	1	RT05153140	15KΩ
R214	1	1	1	RT05202140	2KΩ
R215	1	1	1	RT05301140	300Ω
R216	1	1	1	RT05202140	2KΩ
R217	1	1	1	RT05392140	3.9KΩ
R218	1	1	1	RT05102140	1KΩ
R219	1	1	1	RT05223140	22KΩ
R220	1	1	1	RT05102140	1KΩ
R221	1	1	1	RT05273140	27KΩ
R222	1	1	1	RT05154140	150KΩ
R223	1	1	1	RT05471140	470Ω
R224	1	1	1	RT05102140	1KΩ

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'RY U	Q'RY C	Q'RY N	PART NO.	DESCRIPTION	
R225	1	1	1	RT05202140	2KΩ	
R226	1	1	1	RT05152140	1.5KΩ	
R227	1	1	1	RT05101140	100Ω	
R228	1	1	1	RT05151140	150Ω	
R229	1	1	1	RT05271140	270Ω	
R230	1	1	1	RT05102140	1KΩ	
R231	1	1	1	RT05471140	470Ω	
R232	1	1	1	RT05153140	15KΩ	
R233	1	1	1	RT05242140	2.4KΩ	
R234	1	1	1	RT05152140	1.5KΩ	
R235	1	1	1	RT05102140	1KΩ	
R236	1	1	1	RT05273140	27KΩ	
R237	1	1	1	RT05154140	150KΩ	
R238	1	1	1	RT05151140	150Ω	
R239	1	1	1	RT05331140	330Ω	
R240	1	1	1	RT05102140	1KΩ	
R241	1	1	1	RT05181140	180Ω	
R242	1	1	1	RT05101140	100Ω	
R243	1	1	1	RT05101140	100Ω	
R244	1	1	1	RT05561140	560Ω	
R245	1	1	1	RT05153140	15KΩ	
R246	1	1	1	RT05472140	4.7KΩ	
R247	1	1	1	RT05102140	1KΩ	
R248	1	1	1	RT05102140	1KΩ	
R249	1	1	1	RT05273140	27KΩ	
R250	1	1	1	RT05151140	150Ω	
R251	1	1	1	RT05153140	15KΩ	
R252	1	1	1	RT05822140	8.2KΩ	
R253	1	1	1	RT05102140	1KΩ	
R254	1	1	1	RT05821140	820Ω	
R255	1	1	1	RT05821140	820Ω	
R256	1	1	1	RT05682140	6.8KΩ	
R257	1	1	1	RT05682140	6.8KΩ	
R258	1	1	1	RT05101140	100Ω	
R259	1	1	1	RT05562140	5.6KΩ	
R260	1	1	1	RT05105140	1MΩ	
R261	1	1	1	RT05224140	220KΩ	
R262	1	1	1	RT05223140	22KΩ	
R263	1	1	1	RT05122140	1.2KΩ	
R264	1	1	1	RT05222140	2.2KΩ	
R265	1	1	1	RT05561140	560Ω	
R266	1	1	1	RT05913140	91KΩ	
R267	1	1	1	RT05274140	270KΩ	
R269	1	1	1	RT05183140	18KΩ	
R271	1	1	1	RT05183140	18KΩ	
R272	1	1	1	RT05221140	220Ω	
R273	1	1	1	RT05101140	100Ω	
R274	1	1	1	RT05101140	100Ω	
R275	1	1	1	RT05683140	68KΩ	
R276	1	1	1	RT05473140	47KΩ	
R277	1	1	1	RT05153140	15KΩ	
R278	1	1	1	RA01030250	Trimming	10KΩ
R279	1	1	1	RT05102140	1KΩ	
R280	1	1	1	RA02540010	Trimming	
R281	1	1	1	RT05103140	10KΩ	
R282	1	1	1	RT05153140	15KΩ	
R283	1	1	1	RT05561140	560Ω	
R284	1	1	1	RT05102140	1KΩ	
R285	1	1	1	RT05104140	100KΩ	
R286	1	1	1	RT05101140	100Ω	

REF. DESIG.	Q'RY U	Q'RY C	Q'RY N	PART NO.	DESCRIPTION	
R287	1	1	1	RT05101140	100Ω	
R301	1	1	1	RT05272140	2.7KΩ	
R302	1	1	1	RT05272140	2.7KΩ	
R303	1	1	1	RT05102140	1KΩ	
R304	1	1	1	RT05392140	3.9KΩ	
R305	1	1	1	RT05392140	3.9KΩ	
R306	1	1	1	RT05102140	1KΩ	
R307	1	1	1	RT05102140	1KΩ	
R308	1	1	1	RT05200140	20Ω	
R309	1	1	1	RT05163140	16KΩ	
R310	1	1	1	RA04720050	Trimming	4.7KΩ
R311	1	1	1	RT05272140	2.7KΩ	
R312	1	1	1	RT05472140	4.7KΩ	
R313	1	1	1	RT05472140	4.7KΩ	
R314	1	1	1	RT05202140	2KΩ	
R315	1	1	1	RT05202140	2KΩ	
R316	1	1	1	RT05332140	3.3KΩ	
R317	1	1	1	RT05332140	3.3KΩ	
R318	1	1	1	RT05103140	10KΩ	
R319	1	1	1	RA01040180	Trimming	100KΩ
R320	1	1	1	RT05204140	200KΩ	
R321	1	1	1	RT05303140	30KΩ	
R322	1	1	1	RT05332140	3.3KΩ	
R323	1	1	1	RT05332140	3.3KΩ	
R324	1	1	1	GF05101140	100Ω	
R325	1	1	1	RT05183140	18KΩ	
R326	1	1	1	RT05273140	27KΩ	
R327	1	1	1	RT05333140	33KΩ	
R328	1	1	1	RT05104140	100KΩ	
R329	1	1	1	RT05222140	2.2KΩ	
R330	1	1	1	RA01030250	Trimming	10KΩ
R331	1	1	1	RT05104140	100KΩ	
R332	1	1	1	RT05104140	100KΩ	
R333	1	1	1	RT05102140	1KΩ	
R334	1	1	1	RA04730030	Trimming	47KΩ (B)
R335	1	1	1	RT05223140	22KΩ	
R336	1	1	1	RT05103140	10KΩ	
R337	1	1	1	RT05332140	3.3KΩ	
R338	1	1	1	RT05564140	560KΩ	
R339	1	1	1	RT05333140	33KΩ	
R340	1	1	1	RT05101140	100Ω	
R341	1	1	1	RT05562140	5.6KΩ	
R342	1	1	1	RT05473140	47KΩ	
R343	1	1	1	RT05104140	100KΩ	
R344	1	1	1	RT05154140	150KΩ	
R345	1	1	1	RT05102140	1KΩ	
R346	1	1	1	RT05101140	100Ω	
R347	1	1	1	RA01040180	Trimming	100KΩ
R348	1	1	1	RT05183140	18KΩ	
R351	1	1	1	RT05154140	150KΩ	
					P200-SEMICONDUCTORS	
Q151	1	1	1	HC10019010	IC	HA1197
Q152	1	1	1	HT313272A0	Transistor	2SC1327 (S or T)
Q153	1	1	1	HV00006120	Varistor	MV-203
Q201	1	1	1	HT310471C0	Transistor	2SC1047 (C)
Q202	1	1	1	HC10011060	IC	UPC555H
Q203	1	1	1	HC10019030	IC	LA1222
Q204	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q205	1	1	1	HC10019030	IC	LA1222
Q206	1	1	1	HT308291C0	Transistor	2SC829 (C)
Q207	1	1	1	HD20011050	Diode	1S1555

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
Q208	1	1	1	HD20011050	Diode 1S1555
Q209	1	1	1	HT313272A0	Transistor 2SC1327 (S or T)
Q210	1	1	1	HT108422A0	Transistor 2SA842(GRorBL)
Q211	1	1	1	HT310471C0	Transistor 2SC1047 (C)
Q212	1	1	1	HD10003020	Diode 2OA90
Q213	1	1	1	HD10003020	Diode 2OA90
Q214	1	1	1	HD10003020	Diode 2OA90
Q215	1	1	1	HD10003020	Diode 2OA90
Q216	1	1	1	HT308291C0	Transistor 2SC829 (C)
Q217	1	1	1	HD10003020	Diode 2OA90
Q218	1	1	1	HD10003020	Diode 2OA90
Q219	1	1	1	HT308291C0	Transistor 2SC829 (C)
Q220	1	1	1	HD10003020	Diode 2OA90
Q221	1	1	1	HD10003020	Diode 2OA90
Q222	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q223	1	1	1	HD10003020	Diode 2OA90
Q224	1	1	1	HF200191A0	F.E.T. 2SK19 (Y)
Q301	1	1	1	HC10004010	IC HA1156
Q302	1	1	1	HT108422A0	Transistor 2SA842(GRorBL)
Q303	1	1	1	HT108422A0	Transistor 2SA842(GRorBL)
Q304	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q305	1	1	1	HT107331Q0	Transistor 2SA733 (Q)
Q306	1	1	1	HF200300A0	F.E.T. 2SK30
Q307	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q308	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q309	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q310	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q311	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q312	1	1	1	HT309452B0	Transistor 2SC945 (Q or P)
Q313	1	1	1	HD20011050	Diode 1S1555
Q314	1	1	1	HD20001210	Diode 1S2473
					P200-MISCELLANEOUS
F151	1	1	1	FF10045160	Ceramic Filter
F201	1	1	1	FF11070530	Ceramic Filter 10.7MHz
F202	1	1	1	FF11070530	Ceramic Filter 10.7MHz
F203	1	1	1	FF11070530	Ceramic Filter 10.7MHz
F204	1	1	1	FF11070530	Ceramic Filter 10.7MHz
F205	1	1	1	FF11070530	Ceramic Filter 10.7MHz
J201 ~ J205	5	5	5	YP10001130	Plug
J206	1	1	1	YP06000570	Plug (3P)
J207	1	1	1	YP06000570	Plug (3P)
J209 ~ J217	7	7	7	YP10001130	Plug
J218	1	1	1	YP06000570	Plug (3P)
J221 ~ J234	12	12	12	YP10001130	Plug
J235	1	1	1	YP06000570	Plug
J236 ~ J244	8	8	8	YP10001130	Plug
L151	1	1	1	LA10010190	Ant. Coil
L152	1	1	1	LO10010480	OSC Coil
L153	1	1	1	LI10015010	I.F.T.
L154	1	1	1	LI10015060	I.F.T.
L155	1	1	1	LC13320020	Choke Coil

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
L201	1	1	1	LI14016230	I.F.T.
L202	1	1	1	LC12230020	Choke Coil
L203	1	1	1	LC12230020	Choke Coil
L204	1	1	1	LC13320020	Choke Coil
L205	1	1	1	LC13320020	Choke Coil
L206	1	1	1	LC13320020	Choke Coil
L301	1	1	1	LS10290160	M.P.X. Coil
L302	1	1	1	LS10290170	M.P.X. Coil
L303	1	1	1	LS10290180	M.P.X. Coil
L304	1	1	1	LS35035010	M.P.X. Coil
					P400-PHONE SELECTOR CIRCUIT BOARD
P400	1	1	1	YK22190042	P.W. Board, Phone Selector
	1	1		ZZ22192040	P.W. Board Assembly
			1	ZZ22198040	P.W. Board Assembly
					P400-CAPACITORS
C401	1	1	1	EE10601640	Elect 10μF ±20% 16V
C402	1	1	1	EE10601640	Elect 10μF ±20% 16V
C403	1	1	1	DD15400040	Ceramic 40pF ±5%
C404	1	1	1	DD15400040	Ceramic 40pF ±5%
C405	1	1	1	DF15472010	Film 4700pF ±5%
C406	1	1	1	DF15472010	Film 4700pF ±5%
C407	1	1	1	DF15472010	Film 4700pF ±5%
C408	1	1	1	DF15472010	Film 4700pF ±5%
C409	1	1	1	EA10601690	Elect 10μF 16V
C410	1	1	1	EA10601690	Elect 10μF 16V
C411	1	1	1	DF15223010	Film 0.022μF ±5%
C412	1	1	1	DF15223010	Film 0.022μF ±5%
C413	1	1	1	DF54272010	Film 2700pF
C414	1	1	1	DF54272010	Film 2700pF
C415	1	1	1	DF54751010	Film 750pF
C416	1	1	1	DF54751010	Film 750pF
C417	1	1	1	EE10605010	Elect 10μF 50V
C418	1	1	1	EE10605010	Elect 10μF 50V
C419	1	1	1	EA10703590	Elect 100μF 35V
C420	1	1	1	EA10703590	Elect 100μF 35V
C421	1	1	1	EE33601610	Elect 33μF ±20% 16V
C422	1	1	1	EE33601610	Elect 33μF ±20% 16V
C423	1	1	1	DD15400040	Ceramic 40pF ±5%
C424	1	1	1	DD15400040	Ceramic 40pF ±5%
C425	1	1	1	DK16221510	Ceramic 220pF ±10% 500V
C426	1	1	1	DK16221510	Ceramic 220pF ±10% 500V
					P400-RESISTORS (All Resistors are ±5% and ¼W)
R401	1	1	1	GD05913140	91KΩ
R402	1	1	1	GD05913140	91KΩ
R403	1	1	1	GD05132140	1300Ω
R404	1	1	1	GD05132140	1300Ω
R405	1	1	1	GD05104140	100KΩ
R406	1	1	1	GD05104140	100KΩ
R407	1	1	1	GD05103140	10KΩ
R408	1	1	1	GD05103140	10KΩ
R409	1	1	1	GD05103140	10KΩ
R410	1	1	1	GD05103140	10KΩ
R411	1	1	1	GD05184140	180KΩ
R412	1	1	1	GD05184140	180KΩ
R413	1	1	1	GD05184140	180KΩ
R414	1	1	1	GD05184140	180KΩ
R415	1	1	1	GD05151140	150Ω
R416	1	1	1	GD05151140	150Ω
R417	1	1	1	GD05151140	150Ω
R418	1	1	1	GD05151140	150Ω

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
R419	1	1	1	GD02132140	1.3KΩ
R420	1	1	1	GD02132140	1.3KΩ
R421	1	1	1	GD05680140	68Ω
R422	1	1	1	GD05680140	68Ω
R423	1	1	1	GD05680140	68Ω
R424	1	1	1	GD05680140	68Ω
R425	1	1	1	GD05473140	47KΩ
R426	1	1	1	GD05473140	47KΩ
R427	1	1	1	GD05470140	47Ω
R428	1	1	1	GD05470140	47Ω
R429	1	1	1	GD05470140	47Ω
R430	1	1	1	GD05470140	47Ω
R431	1	1	1	GM21212140	1.21MΩ
R432	1	1	1	GM21212140	1.21MΩ
R433	1	1	1	GM21495320	95.3KΩ ½W
R434	1	1	1	GM21495320	95.3KΩ ½W
R435	1	1	1	GD05221140	220Ω
R436	1	1	1	GD05221140	220Ω
R437	1	1	1	GD05104140	100KΩ
R438	1	1	1	GD05104140	100KΩ
R439	1	1	1	GH05056140	5.6Ω
R440	1	1	1	GH05056140	5.6Ω
R454	1	1	1	GD05220140	22Ω
R455	1	1	1	GD05102140	1KΩ
R456	1	1	1	GD05102140	1KΩ
R457	1	1	1	GD05101140	100Ω
R458	1	1	1	GD05360140	36Ω
R459	1	1	1	GD05183140	18KΩ
R460	1	1	1	GD05680140	68Ω
R461	1	1	1	GD05105140	1MΩ
R462	1	1	1	GD05105140	1MΩ
					P400-SEMICONDUCTORS
Q401	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q402	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q403	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q404	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q405	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q406	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q407	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q408	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q409	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q410	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q411	1	1	1	HT108722D0	Transistor 2SA872A (D or E)
Q412	1	1	1	HT317752D0	Transistor 2SC1775A (D or E)
Q413	1	1	1	HT318852D0	Transistor 2SC1885 (S or T)
Q414	1	1	1	HT318852D0	Transistor 2SC1885 (S or T)
Q415	1	1	1	HT109122D0	Transistor 2SA912 (S or T)
Q416	1	1	1	HT109122D0	Transistor 2SA912 (S or T)
Q417	1	1	1	HV00006120	Varistor MV203
Q418	1	1	1	HV00006120	Varistor MV203
Q419	1	1		HD20001210	Diode 1S2473
Q420			1	HD20001210	Diode 1S2473
Q421	1	1	1	HD20001210	Diode 1S2473
					P400-MISCELLANEOUS
J401	1	1	1	YP06001370	Plug (4P)
J402	1	1	1	YP06001370	Plug (4P)
J403	1	1	1	YP06001050	Plug (5P)
J404	1	1	1	YP06001050	Plug (5P)
J405	1	1	1	YP06001050	Plug (5P)
J406	1	1	1	YP06001050	Plug (5P)
J444	1	1	1	YJ10001350	Jack

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
S401			1	SR09060020	Rotary Switch
S401	1	1		SR10060160	Rotary Switch
S402	1	1	1	SR04050110	Rotary Switch
					P700-MAIN CIRCUIT BOARD
P700	1	1	1	YG22190012	P.W. Board, Main
	1	1	1	ZZ24762010	P.W. Board Assembly
					P700-CAPACITORS
C701	2	2	2	DK16101500	Ceramic 100pF ±10% 500V
C702	2	2	2	EE47502540	Elect 4.7μF ±20% 25V
C703	2	2	2	DK16101500	Ceramic 100pF ±10% 500V
C704	2	2	2	DF17223050	Film 0.022μF ±20%
C705	2	2	2	DD15240510	Ceramic 24pF ±5% 500V
C706	2	2	2	DD15500500	Ceramic 50pF ±5% 500V
C708	2	2	2	DF17224050	Film 0.22μF ±20%
C709	2	2	2	DK16101500	Ceramic 100pF ±10% 500V
C710	2	2	2	DF17104520	Film 0.1μF ±20% 200V
C711	2	2	2	DF16103050	Film 0.01μF ±10%
C712	2	2	2	DF16103050	Film 0.01μF ±10%
C716	2	2	2	DF17104520	Film 0.1μF ±20% 200V
C717	2	2	2	DF17104520	Film 0.1μF ±20% 200V
C718	2	2	2	DF17104520	Film 0.1μF ±20% 200V
C719	2	2	2	DF17104520	Film 0.1μF ±20% 200V
C720	2	2	2	EA47505090	Elect 4.7μF 50V
C722	2	2	2	EE10701640	Elect 100μF 16V
C725	2	2	2	EA22601090	Elect 22μF 10V
C728	2	2	2	DK16103010	Ceramic 0.01μF ±10%
C729	2	2	2	EA10610010	Elect 10μF 100V
C730	2	2	2	EA10610010	Elect 10μF 100V
					P700-RESISTORS (All Resistors are ±5% and ¼W)
R701	2	2	2	RT05563140	56KΩ
R702	2	2	2	RT05331140	330Ω
R703	2	2	2	RT05514140	510KΩ
R704	2	2	2	RT05242140	2.4KΩ
R705	2	2	2	RT05242140	2.4KΩ
R706	2	2	2	RT05681140	680Ω
R707	2	2	2	RT05221140	220Ω
R708	2	2	2	RT05822140	8.2KΩ
R709	2	2	2	GF05472120	4.7KΩ ½W
R712	2	2	2	RT05751140	750Ω
R713	2	2	2	RT05393140	39KΩ
R714	2	2	2	RT05183140	18KΩ
R715	2	2	2	RT05104140	100KΩ
R716	2	2	2	RT05243140	24KΩ
R717	2	2	2	RT05511140	510Ω
R718	2	2	2	RT05511140	510Ω
R719	2	2	2	RT05511140	510Ω
R720	2	2	2	RT05511140	510Ω
R721	2	2	2	RT05181140	180Ω
R722	2	2	2	GJ05030010	3Ω 1W
R723	2	2	2	GA05302010	3KΩ 1W
R724	2	2	2	GA05302010	3KΩ 1W
R725	2	2	2	RT05103140	10KΩ
R726	2	2	2	GF05100120	10Ω ½W
R727	2	2	2	GF05100120	10Ω ½W
R728	2	2	2	GF05100140	10Ω
R729	2	2	2	GF05100140	10Ω
R734	2	2	2	GF05101140	100Ω
R735	2	2	2	GF05101140	100Ω
R736	2	2	2	GF05273120	27KΩ ½W

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
R737	2	2	2	GF05561120	560Ω ½W
R738	2	2	2	GJ05151010	150Ω 1W
R739	2	2	2	GJ05022030	2.2Ω 3W
R740	2	2	2	GW10392050	0.39Ω ±10% 5W
R741	2	2	2	GW10392050	0.39Ω ±10% 5W
R742	2	2	2	GW10392050	0.39Ω ±10% 5W
R743	2	2	2	GW10392050	0.39Ω ±10% 5W
R744	2	2	2	GW10392050	0.39Ω ±10% 5W
R745	2	2	2	GW10392050	0.39Ω ±10% 5W
R746	2	2	2	GW10392050	0.39Ω ±10% 5W
R747	2	2	2	GW10392050	0.39Ω ±10% 5W
R748	2	2	2	GJ05047030	4.7Ω 3W
R749	2	2	2	GJ05047030	4.7Ω 3W
R750	2	2	2	RT05220140	22Ω
R751	2	2	2	RT05270140	27Ω
R752	2	2	2	RT05270140	27Ω
R753	2	2	2	RT05102140	1KΩ
R754	2	2	2	RT05102140	1KΩ
R755	2	2	2	GJ05822010	8.2KΩ 1W
R756	2	2	2	GJ05123010	12KΩ 1W
R757	2	2	2	RT05033140	3.3Ω
R758	2	2	2	RT05201140	200Ω
R759	2	2	2	RT05154140	150KΩ
R760	2	2	2	RA02220090	Trimming 2.2KΩ
R761	2	2	2	RA01020270	Trimming 1KΩ
R762	2	2	2	RT05471140	470Ω
R764	2	2	2	RT05513140	51KΩ
R765	2	2	2	RT05562140	5.6KΩ
R766	2	2	2	GF05161140	160Ω
R767	2	2	2	GF05161140	160Ω
					P700-SEMICONDUCTORS
Q701	2	2	2	HT320882A0	Transistor 2SC2088 (BL or V)
Q702	2	2	2	HT320882A0	Transistor 2SC2088 (BL or V)
Q703	2	2	2	HT320882A0	Transistor 2SC2088 (BL or V)
Q705	2	2	2	HT109392B0	Transistor 2SA939 (B or V)
Q706	2	2	2	HT109392B0	Transistor 2SA939 (B or V)
Q707	2	2	2	HT320712B0	Transistor 2SC2071 (B or V)
Q708	2	2	2	HT320712B0	Transistor 2SC2071 (B or V)
Q709	2	2	2	HT309452A0	Transistor 2SC945 (Q or R)
Q710	2	2	2	HT107332B0	Transistor 2SA733 (Q or R)
Q711	2	2	2	HT320713A0	Transistor 2SC2071 (G, B or V)
Q712	2	2	2	HT109393A0	Transistor 2SA939 (G, B or V)
Q713	2	2	2	HT107502B0	Transistor 2SA750 (E or U)
Q714	2	2	2	HT107502B0	Transistor 2SA750 (E or U)
Q717	2	2	2	HV00003120	Varistor MV-13
Q720	2	2	2	HD20001210	Diode 1S2473
Q721	2	2	2	HD20001210	Diode 1S2473
Q722	2	2	2	HD20001210	Diode 1S2473
Q723	2	2	2	HD20001210	Diode 1S2473
Q724	2	2	2	HD20008210	Diode 1S2471F
Q725	2	2	2	HD20008210	Diode 1S2471F
Q728	2	2	2	HD20011010	Diode W06C
Q729	2	2	2	HD20011010	Diode W06C
Q730	2	2	2	HD30023090	Zener WZ-071
Q731	2	2	2	HD30002130	Zener EQA01-35R
Q732	2	2	2	HD20001210	Diode 1S2473
Q733	2	2	2	HD30027090	Zener WZ-140
Q734	2	2	2	HD20001210	Diode 1S2473
Q735	2	2	2	HD20001210	Diode 1S2473

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					P700-MISCELLANEOUS
J701	2	2	2	YP10001430	Plug (3P)
J702	2	2	2	YP06001300	Plug (6P)
J703	2	2	2	YJ06001330	Jack (8P)
J704	2	2	2	YJ06001340	Jack (4P)
J705	2	2	2	YJ06001340	Jack (4P)
J706	2	2	2	YL09010140	Terminal
J707	2	2	2	YL09010140	Terminal
J708	2	2	2	YL09010140	Terminal
J709	2	2	2	YL09010140	Terminal
J710	2	2	2	YL09010130	Terminal
J711	2	2	2	YL09010130	Terminal
L701	2	2	2	LC28010010	Choke Coil 0.8μH
W701	2	2	2	YB00090010	Connective Cord
					P800-POWER SUPPLY CIRCUIT BOARD
P800	1	1		YG22190022	P.W. Board, Power Supply
	1	1		ZZ22192030	P.W. Board Assembly
P800			1	YG22190032	P.W. Board Power Supply
			1	ZZ22192050	P.W. Board Assembly
					P800-CAPACITORS
C801	1	1	1	DF17103510	Film 200VDC
C802	1	1	1	DF17103510	Film 200VDC
C803	1	1	1	DF17103050	Film 0.01μF ±20%
C804	1	1	1	DF17103050	Film 0.01μF ±20%
C805	1	1	1	DF17103050	Film 0.01μF ±20%
C806	1	1	1	DF17103050	Film 0.01μF ±20%
C807	1	1	1	EA22625010	Elect 22μF 250V
C808	1	1	1	EA10625010	Elect 10μF 250V
C809	1	1	1	EB22805010	Elect 2200μF 50V
C810	1	1	1	EB47706320	Elect 470μF 63V
C811	1	1	1	EA10635010	Elect 10μF 350V
C812	1	1	1	EA10635010	Elect 10μF 350V
C813	1	1	1	EA22701690	Elect 220μF 16V
C814	1	1	1	EA22701690	Elect 220μF 16V
C815	1	1	1	EA33705090	Elect 330μF 50V
C816	1	1	1	EA22705090	Elect 220μF 50V
C817	1	1	1	EA22705090	Elect 220μF 50V
C818	1	1	1	EA10601690	Elect 10μF 16V
C819	1	1	1	EE47505040	Elect 4.7μF 50V
C820	1	1	1	EE47505040	Elect 4.7μF 50V
					P800-RESISTORS
					(All Resistors are ±5% and ¼W)
R801	1	1	1	GF05472120	4.7KΩ ½W
R802	1	1	1	GF05100120	10Ω ½W
R803	1	1	1	GJ05152010	1.5KΩ 1W
R804	1	1	1	GF05100120	10Ω ½W
R805	1	1	1	GF05220140	22Ω
R806	1	1	1	GJ05222010	2.2KΩ 1W
R807	1	1	1	GQ10750070	75Ω ±10% 7W
R808	1	1	1	RT05222140	2.2KΩ
R809	1	1	1	RT05222140	2.2KΩ
R810	1	1	1	GF05202140	2KΩ

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
R811	1	1	1	RT05123140	12KΩ
R812	1	1	1	RT05103140	10KΩ
R813	1	1	1	RT05472140	4.7KΩ
R814	1	1	1	RT05472140	4.7KΩ
R815	1	1	1	RT05163140	16KΩ
R816	1	1	1	RT05133140	13KΩ
R817	1	1	1	RT05272140	2.7KΩ
R818	1	1	1	RT05562140	5.6KΩ
R819	1	1	1	RA04720060	Trimming 4.7KΩ (B)
					P800-SEMICONDUCTORS
Q801	1	1	1	HT403132A0	Transistor 2SD313 (D or E)
Q802	1	1	1	HT403132A0	Transistor 2SD313 (D or E)
Q803	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
Q804	1	1	1	HT108412A0	Transistor 2SA841 (GR or BL)
Q805	1	1	1	HT403132A0	Transistor 2SD313 (D or E)
Q806	1	1	1	HT107332A0	Transistor 2SA733 (P or Q)
Q807	1	1	1	HD20021100	Diode 2DL15
Q808	1	1	1	HD20014030	Diode DS130YA
Q809	1	1	1	HD20014030	Diode DS130YA
Q810	1	1	1	HD20011030	Diode DS131B
Q811	1	1	1	HD20012030	Diode DS132B
Q812	1	1	1	HD20001210	Diode 1S2473
Q813	1	1	1	HD30027090	Zener WZ-140
Q814	1	1	1	HD30027090	Zener WZ-140
Q815	1	1	1	HD30027090	Zener WZ-140
					P800-MISCELLANEOUS
F801	1	1		FS10200060	Fuse 30mA
F802 ~ F805	4	4		FS10050090	Fuse 30mA
F806	1	1		FS10150050	Fuse 30mA
F807	1	1		FS10150050	Fuse 30mA
F801			1	FS10200800	Fuse 20mA
F802 ~ F805			4	FS10050800	Fuse 500mA
F806			1	FS10140800	Fuse 1.4A
F807			1	FS10140800	Fuse 1.4A
J801	1	1	1	YP06000830	Plug (4P)
J802	1	1	1	YP06000840	Plug (6P)
J803	1	1	1	YP06001040	Plug (3P)
J804	1	1	1	YP06001310	Plug (6P)
J805	1	1	1	YP06001050	Plug (5P)
J806 ~ J819	14	14		YJ08000170	Jack, Fuse Holder
J806 ~ J819			14	YJ08000200	Jack, Fuse Holder
					P900-SCOPE AMP. CIRCUIT BOARD
P900	1	1	1	YK22190310	P.W. Board, Scope Amp.
	1	1	1	ZZ22190310	P.W. Board Assembly
					P900-CAPACITORS
C901	1	1	1	DK18103820	Ceramic 0.01μF 1KV
C902	1	1	1	DK18103820	Ceramic 0.01μF 1KV
C903	1	1	1	DF17473520	Film 0.047μF ±20% 200V

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					P900-RESISTORS (All Resistors are ±5% and ¼W)
R901	1	1	1	RT05224140	220KΩ
R902	1	1	1	RT05224140	220KΩ
R903	1	1	1	RT05224140	220KΩ
R904	1	1	1	RT05224140	220KΩ
R905	1	1	1	RT05682140	6.8KΩ
R906	1	1	1	RT05682140	6.8KΩ
R907	1	1	1	RT05222140	2.2KΩ
R908	1	1	1	RT05222140	2.2KΩ
R909	1	1	1	RT05103140	10KΩ
R910	1	1	1	RT05103140	10KΩ
R911	1	1	1	RT05103140	10KΩ
R912	1	1	1	RT05103140	10KΩ
R913	1	1	1	RT05683140	68KΩ
R914	1	1	1	RT05683140	68KΩ
R915	1	1	1	RT05623140	62KΩ
R916	1	1	1	RT05623140	62KΩ
R917	1	1	1	RT05823140	82KΩ
R918	1	1	1	RT05204140	200KΩ
R919	1	1	1	RT05105140	1MΩ
R920	1	1	1	RT05105140	1MΩ
R921	1	1	1	RT05224140	200KΩ
R922	1	1	1	RT05155140	1.5MΩ
R923	1	1	1	RT05153140	15KΩ
R924	1	1	1	RT05473140	47KΩ
R925	1	1	1	RA01030250	Trimming 10KΩ
R926	1	1	1	RA01030250	Trimming 10KΩ
R927	1	1	1	RA01020150	Trimming 1KΩ
R928	1	1	1	RA01020150	Trimming 1KΩ
R929	1	1	1	RT05204140	200KΩ
R930	1	1	1	RT05152140	1.5KΩ
R931	1	1	1	RA01030070	Trimming 10KΩ
R932	1	1	1	RT05473140	47KΩ
					P900-SEMICONDUCTORS
Q901	1	1	1	HF200304A0	F.E.T. 2SK30A (OB OC OD OE)
Q902	1	1	1	HF200304A0	F.E.T. 2SK30A (OB OC OD OE)
Q903	1	1	1	HF200304A0	F.E.T. 2SK30A (OB OC OD OE)
Q904	1	1	1	HF200304A0	F.E.T. 2SK30A (OB OC OD OE)
Q905	1	1	1	HT317562B0	Transistor 2SC1756 (D or E)
Q906	1	1	1	HT317562B0	Transistor 2SC1756 (D or E)
Q907	1	1	1	HT317562B0	Transistor 2SC1756 (D or E)
Q908	1	1	1	HT317562B0	Transistor 2SC1756 (D or E)
Q909	1	1	1	HD20003210	Diode 1S2471
Q910	1	1	1	HD20003210	Diode 1S2471
Q911	1	1	1	HD20001210	Diode 1S2473
					P900-MISCELLANEOUS
J901	1	1	1	YJ06001290	Jack (8P)
J902	1	1	1	YP06001050	Plug (5P)
J903	1	1	1	YP06001050	Plug (5P)
J904	1	1	1	YB00140030	Connective Cord
J905	1	1	1	YB00180010	Connective Cord
J906	1	1	1	YB00140030	Connective Cord
J907	1	1	1	YB00120010	Connective Cord
J908	1	1	1	YB00140040	Connective Cord
J909	1	1	1	YB00150010	Connective Cord
J910	1	1	1	YB00180020	Connective Cord
J911	1	1	1	YB00200290	Connective Cord
J912	1	1	1	YB00180030	Connective Cord
J913	1	1	1	YB00210010	Connective Cord
J914	1	1	1	YJ06001310	Jack (6P)

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DEISG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PB00-NOISE AMP. CIRCUIT BOARD
PB00	1	1	1	YA22180610	P.W. Board, Noise Amp
	1	1	1	ZZ22180610	P.W. Board
					PB00-CAPACITORS
CB01	1	1	1	DD12100010	Ceramic 10pF ±10%
CB02	1	1	1	DF16683010	Film 0.068μF ±10%
CB03	1	1	1	DF17403010	Film 0.04μF ±20%
CB04	1	1	1	DK18104020	Ceramic 0.1μF
CB05	1	1	1	DK18403020	Ceramic 0.04μF
CB06	1	1	1	EA10601690	Elect 10μF 16V
					PB00-RESISTORS (All Resistors are ±5% and ¼W)
RB01	1	1	1	RT05562140	5.6KΩ
RB02	1	1	1	RT05104140	100KΩ
RB03	1	1	1	RT05273140	27KΩ
RB04	1	1	1	RT05102140	1KΩ
RB05	1	1	1	RT05273140	27KΩ
RB06	1	1	1	RT05333140	33KΩ
RB07	1	1	1	RT05221140	220Ω
RB08	1	1	1	RT05101140	100Ω
RB09	1	1	1	RT05101140	100Ω
					PB00-SEMICONDUCTORS
QB01	1	1	1	HT308281D0	Transistor 2SC828S
QB02	1	1	1	HT308281D0	Transistor 2SC828S
QB03	1	1	1	HD10001050	Diode 1N60
QB04	1	1	1	HD10001050	Diode 1N60
					PB00-MISCELLANEOUS
JB01 ≀ JB04	4	4	4	YP10001130	Plug
LB01	1	1	1	LC21050010	Choke Coil 1mH
					PC01-FM/AM AMP. CIRCUIT BOARD
PC01	1	1	1	YN24763210	P.W. Board, FM/AM Amp.
	1	1	1	ZZ24760410	P.W. Board Assembly
					PC01-CAPACITORS
CC01	1	1	1	EV47403560	Elect 0.47μF 35V
CC02	1	1	1	EV47403560	Elect 0.47μF 35V
CC03	1	1	1	EA10603590	Elect 10μF 35V
CC04	1	1	1	EA10603590	Elect 10μF 35V
CC05	1	1	1	EE33503550	Elect 3.3μF 35V
CC06	1	1	1	EE33503550	Elect 3.3μF 35V
CC07	1	1	1	EA47603590	Elect 47μF 35V
CC08	1	1	1	EA10701090	Elect 100μF 10V
CC09	1	1	1	EA10601690	Elect 10μF 16V
CC11	1	1	1	DK18103300	Ceramic 0.01μF
CC12	1	1	1	DK18103300	Ceramic 0.01μF

REF. DEISG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PC01-RESISTORS (All Resistors are ±5% and ¼W)
RC01	1	1	1	RA05020200	Trimming 5KΩ
RC02	1	1	1	RA05020200	Trimming 5KΩ
RC03	1	1	1	GD05101140	100Ω
RC04	1	1	1	GD05101140	100Ω
RC05	1	1	1	GD05683140	68KΩ
RC06	1	1	1	GD05683140	68KΩ
RC07	1	1	1	GD05683140	68KΩ
RC08	1	1	1	GD05683140	68KΩ
RC09	1	1	1	GD05202140	2KΩ
RC10	1	1	1	GD05202140	2KΩ
RC11	1	1	1	GD05203140	20KΩ
RC12	1	1	1	GD05203140	20KΩ
RC13	1	1	1	GD05224140	220KΩ
RC14	1	1	1	GD05224140	220KΩ
RC15	1	1	1	GG05750120	75Ω ½W
RC16	1	1	1	GG05472140	4.7KΩ
RC17	1	1	1	GD05821140	820Ω
RC18	1	1	1	GD05101140	100Ω
RC19	1	1	1	GD05101140	100Ω
					PC01-SEMICONDUCTORS
QC01	1	1	1	HC10003090	IC NJM4558D
QC02	1	1	1	HT404002A0	Transistor 2SD400 (E or F)
QC03	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
QC04	1	1	1	HD30052090	Zener WZ-056
QC05	1	1	1	HD20011050	Diode 1S1555
					PC01-RELAY
LC01	1	1	1	LY20240120	Relay
					PC50-QUARTZ LOCK CIRCUIT BOARD
PC50	1	1	1	YK22860220	P.W. Board, Quartz Lock
	1	1	1	ZZ24761220	P.W. Board Assembly
					PC50-CAPACITORS
CC51	1	1	1	DK18403320	Ceramic 0.04μF +100% −0
CC52	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CC53	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CC54	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CC55	1	1	1	EA47405010	Elect 0.47μF 50V
CC56	1	1	1	CT15000010	Trimming 50pF
CC57	1	1	1	DK18403320	Ceramic 0.04μF +100% −0
CC58	1	1	1	EA47601090	Elect 47μF 10V
CC59	1	1	1	EQ22505020	Elect 2.2μF 50V
CC61	1	1	1	DF16224050	Film 0.22μF ±10%
					PC50-RESISTORS (All Resistors are ±5% and ¼W)
RC51	1	1	1	GD05123140	12KΩ
RC52	1	1	1	GD05562140	5.6KΩ
RC53	1	1	1	GD05102140	1KΩ
RC54	1	1	1	GD05224140	220KΩ
RC55	1	1	1	GD05182140	1.8KΩ
RC56	1	1	1	GD05223140	22KΩ
RC57	1	1	1	GD05104140	100KΩ
RC58	1	1	1	GD05222140	2.2KΩ
RC59	1	1	1	GD05223140	22KΩ
RC60	1	1	1	GD05103140	10KΩ

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
RC61	1	1	1	GD05104140	100KΩ
RC02	1	1	1	GD05223140	22KΩ
RC63	1	1	1	GD05334140	330KΩ
RC64	1	1	1	GD05473140	47KΩ
RC65	1	1	1	GD05332140	3.3KΩ
RC66	1	1	1	GD05104140	100KΩ
RC67	1	1	1	GD05334140	330KΩ
RC68	1	1	1	GD05104140	100KΩ
RC70	1	1	1	GD05911140	910Ω
RC71	1	1	1	GD05102140	1KΩ
RC72	1	1	1	GD05623140	62KΩ
					PC50-SEMICONDUCTORS
QC51	1	1	1	HT308291C0	Transistor 2SC829 (C)
QC52	1	1	1	HT308291C0	Transistor 2SC829 (C)
QC53	1	1	1	HC10032010	IC HD7490
QC54	1	1	1	HT309452A0	Transistor 2SC945 (Q or R)
QC55	1	1	1	HT309452A0	Transistor 2SC945 (P or Q)
QC56	1	1	1	HT309452A0	Transistor 2SC945 (P or Q)
QC57	1	1	1	HT402272A0	Transistor 2SD227
QC58	1	1	1	HC10008060	IC μPD861C
QC59	1	1	1	HT402272A0	Transistor 2SD227
QC61	1	1	1	HD20011050	Diode 1S1555
					PC50-MISCELLANEOUS
LC51	1	1	1	LY20240120	Relay
LC52	1	1	1	LC13320020	Choke Coil 3.3μH
LC53	1	1	1	LC13320020	Choke Coil 3.3μH
XC51	1	1	1	XA104101L2	Crystal 10.24MHz
					PD01-BUFFER/SCOPE CIRCUIT BOARD
PD01	1	1	1	YK22190612	P.W. Board, Buffer/Scope
	1	1	1	ZZ22190610	P.W. Board Assembly
					PD01-CAPACITORS
CD01	1	1	1	DF17103010	Film 0.01μF ±20%
CD02	1	1	1	DF17103010	Film 0.01μF ±20%
CD03	1	1	1	DF17104010	Film 0.1μF ±20%
CD04	1	1	1	DF17104010	Film 0.1μF ±20%
CD05	1	1	1	DK17203010	Ceramic 0.02μF ±20%
					PD01-RESISTORS (All Resistors are ±5% and ¼W)
RD01	1	1	1	GD05105140	1MΩ
RD02	1	1	1	GD05105140	1MΩ
RD03	1	1	1	GD05152140	1.5KΩ
RD04	1	1	1	GD05152140	1.5KΩ
RD05	1	1	1	GD05105140	1MΩ
RD06	1	1	1	GD05105140	1MΩ
RD07	1	1	1	RM02540390	Variable 250KΩ (A)
RD08	1	1	1	GD05153140	15KΩ
RD09	1	1	1	GD05153140	15KΩ
RD10	1	1	1	GD05913140	91KΩ
RD11	1	1	1	GD05913140	91KΩ

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PD01-SEMICONDUCTORS
QD01	1	1	1	HF200301C0	F.E.T 2SK30A (Y)
QD02	1	1	1	HF200301C0	F.E.T 2SK30A (Y)
					PD01-PLUG
JD01	1	1	1	YP06000570	Plug, (3P)
JD02	1	1	1	YP06000570	Plug, (3P)
JD03	1	1	1	YP06000570	Plug, (3P)
					PE01-TONE/VOLUME CIRCUIT BOARD
PE01	1	1	1	YA22180210	P.W. Board, Tane/Volume
	1	1	1	ZZ22180210	P.W. Board Assembly
					PE01-CAPACITORS
CE01	1	1	1	EE22503510	Elect 2.2μF 35V
CE02	1	1	1	EE22503510	Elect 2.2μF 35V
CE03	1	1	1	EE22601640	Elect 22μF 16V
CE04	1	1	1	EE22601640	Elect 22μF 16V
CE05	1	1	1	EA33601690	Elect 33μF 16V
CE06	1	1	1	EA33601690	Elect 33μF 16V
CE07	1	1	1	DD15500050	Ceramic 50pF ±5%
CE08	1	1	1	DD15500050	Ceramic 50pF ±5%
CE09	1	1	1	DD12100010	Ceramic 10pF ±0.25pF
CE10	1	1	1	DD12100010	Ceramic 10pF ±0.25pF
CE11	1	1	1	EE10505040	Elect 1μF 50V
CE12	1	1	1	EE10505040	Elect 1μF 50V
CE13	1	1	1	EE47502540	Elect 4.7μF 25V
CE14	1	1	1	EE47502540	Elect 4.7μF 25V
CE15	1	1	1	DD15500050	Ceramic 50pF ±5%
CE16	1	1	1	DD15500050	Ceramic 50pF ±5%
CE17	1	1	1	DD16200010	Ceramic 20pF ±10%
CE18	1	1	1	DD16200010	Ceramic 20pF ±10%
CE19	1	1	1	DF16123010	Film 0.012μF ±10%
CE20	1	1	1	DF16123010	Film 0.012μF ±10%
CE21	1	1	1	DF16123010	Film 0.012μF ±10%
CE22	1	1	1	DF16123010	Film 0.012μF ±10%
CE23	1	1	1	DF17224020	Film 0.22μF ±20%
CE24	1	1	1	DF17224020	Film 0.22μF ±20%
CE25	1	1	1	DF16682010	Film 6800pF ±10%
CE26	1	1	1	DF16682010	Film 6800pF ±10%
CE27	1	1	1	DD16501010	Ceramic 500pF ±10%
CE28	1	1	1	DD16501010	Ceramic 500pF ±10%
CE29	1	1	1	DF16222010	Film 2200pF ±10%
CE30	1	1	1	DF16222010	Film 2200pF ±10%
CE31	1	1	1	DF16332010	Film 3300pF ±10%
CE32	1	1	1	DF16332010	Film 3300pF ±10%
CE33	1	1	1	DD15201010	Ceramic 200pF ±5%
CE34	1	1	1	DD15201010	Ceramic 200pF ±5%
CE35	1	1	1	EA10701690	Elect 100μF 16V
CE36	1	1	1	EA10701690	Elect 100μF 16V
CE37	1	1	1	DD15200010	Ceramic 20pF ±5%
CE38	1	1	1	DD15200010	Ceramic 20pF ±5%
CE39	1	1	1	DF15102010	Film 0.001μF ±5%
CE40	1	1	1	DF15102010	Film 0.001μF ±5%

- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
CE41	1	1	1	DK18103010	Ceramic 0.01μF ±10%
CE42	1	1	1	DK18103010	Ceramic 0.01μF ±10%
CE43	1	1	1	DF16392010	Film 3900pF ±10%
CE44	1	1	1	DF16392010	Film 3900pF ±10%
CE45	1	1	1	DF16392010	Film 3900pF ±10%
CE46	1	1	1	DF16392010	Film 3900pF ±10%
CE47	1	1	1	DD12100010	Ceramic 10pF ±0.25pF
CE48	1	1	1	DD12100010	Ceramic 10pF ±0.25pF
					PE01-RESISTORS
					(All Resistors are ±5% and ¼W)
RE03	1	1	1	RN05334140	330KΩ
RE04	1	1	1	RN05334140	330KΩ
RE05	1	1	1	RT05473140	47KΩ
RE06	1	1	1	RT05473140	47KΩ
RE07	1	1	1	RT05303140	30KΩ
RE08	1	1	1	RT05303140	30KΩ
RE09	1	1	1	RT05392140	3.9KΩ
RE10	1	1	1	RT05392140	3.9KΩ
RE11	1	1	1	RT05105140	1MΩ
RE12	1	1	1	RT05105140	1MΩ
RE13	1	1	1	RT05103140	10KΩ
RE14	1	1	1	RT05103140	10KΩ
RE15	1	1	1	RT05105140	1MΩ
RE16	1	1	1	RT05105140	1MΩ
RE17	1	1	1	RT05473140	47KΩ
RE18	1	1	1	RT05473140	47KΩ
RE19	1	1	1	RT05224140	220KΩ
RE20	1	1	1	RT05224140	220KΩ
RE21	1	1	1	RT05113140	11KΩ
RE22	1	1	1	RT05113140	11KΩ
RE23	1	1	1	RT05113140	11KΩ
RE24	1	1	1	RT05113140	11KΩ
RE25	1	1	1	RT05183140	18KΩ
RE26	1	1	1	RT05183140	18KΩ
RE27	1	1	1	RT05183140	18KΩ
RE28	1	1	1	RT05183140	18KΩ
RE29	1	1	1	RT05273140	27KΩ
RE30	1	1	1	RT05273140	27KΩ
RE31	1	1	1	RT05562140	5.6KΩ
RE32	1	1	1	RT05562140	5.6KΩ
RE33	1	1	1	RT05183140	18KΩ
RE34	1	1	1	RT05183140	18KΩ
RE35	1	1	1	RT05183140	18KΩ
RE36	1	1	1	RT05183140	18KΩ
RE39	1	1	1	RD01040070	Variable 100KΩ (B)
RE40	1	1	1	RD01040070	Variable 100KΩ (B)
RE41	1	1	1	RD01040070	Variable 100KΩ (B)
RE42	1	1	1	RG02030020	Variable 20KΩ (B)
RE43	1	1	1	RT05562140	5.6KΩ
RE44	1	1	1	RT05562140	5.6KΩ

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
RE45	1	1	1	RT05562140	5.6KΩ
RE46	1	1	1	RT05562140	5.6KΩ
RE47	1	1	1	GU05751120	750Ω ½W
RE48	1	1	1	GU05751120	750Ω ½W
RE49	1	1	1	RT05564140	560KΩ
RE50	1	1	1	RT05564140	560KΩ
RE51	1	1	1	RT05471140	470Ω
RE52	1	1	1	RT05471140	470Ω
					PE01-SEMICONDUCTORS
QE01	1	1	1	HC10020050	IC TA7136P
QE02	1	1	1	HC10022050	IC TA7136P
QE03	1	1	1	HC10022050	IC TA7136P
QE04	1	1	1	HC10022050	IC TA7136P
					PE01-MISCELLANEOUS
JE01	1	1	1	YP06001040	Plug, (3P)
JE02	1	1	1	YP06001040	Plug, (3P)
JE04	1	1	1	YP06001040	Plug, (3P)
JE05	1	1	1	YJ06000490	Jack, (9P)
JE06	1	1	1	YJ06000740	Jack, (3P)
JE07	1	1	1	YJ06000740	Jack, (3P)
JE08	1	1	1	YP06001040	Plug (3P)
SE01	1	1	1	SR04050130	Rotary Switch, Tone Mode
					PK01-DOLBY SOCKET CIRCUIT BOARD
PK01	1	1		YA22180310	P.W. Board, Dolby Socket
	1	1		ZZ22180310	P.W. Board Assembly
					PK01-PLUG
JK01 ~ JK08	8	8		YP10001130	Plug
JK09	1	1		YJ07000120	Jack, (10P)
					PK01-SWITCH
SK01	1	1		SC01020240	Micro Switch
SK02	1	1		SC01020240	Micro Switch
					PK51-TOUCH SENSER CIRCUIT BOARD
PK51	1	1	1	YN24763220	P.W. Board, Touch Senser
	1	1	1	ZZ24760420	P.W. Board Assembly
					PK51-CAPACITORS
CK51	1	1	1	DF65821010	Film 820pF ±5%
CK52	1	1	1	DK16471300	Ceramic 470pF ±10%
CK53	1	1	1	DF15472300	Film 0.0047μF ±5%
CK54	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CK55	1	1	1	DD15330370	Ceramic 33pF ±5%
CK56	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CK57	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CK58	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CK59	1	1	1	DK18223310	Ceramic 0.022μF +100% −0
CK60	1	1	1	EA22701690	Elect 220μF 16V

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- (U): for U.S.A.
- (C): for Canada
- (N): for Europe

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PK51-RESISTORS (All Resistors are ±5% and ¼W)
RK51	1	1	1	GD05153140	15KΩ
RK52	1	1	1	GD05102140	1KΩ
RK53	1	1	1	GD05222140	2.2KΩ
RK54	1	1	1	GD05333140	33KΩ
RK55	1	1	1	GD05472140	4.7KΩ
RK56	1	1	1	GD05102140	1KΩ
RK57	1	1	1	GD05102140	1KΩ
RK58	1	1	1	GD05473140	47KΩ
RK59	1	1	1	GD05103140	10KΩ
RK60	1	1	1	GD05564140	560KΩ
RK61	1	1	1	GD05101140	100Ω
RK62	1	1	1	GD05333140	33KΩ
RK63	1	1	1	GD05104140	100KΩ
RK64	1	1	1	GD05473140	47KΩ
RK65	1	1	1	GD05473140	47KΩ
RK66	1	1	1	GG05101140	100Ω
					PK51-SEMICONDUCTORS
QK51	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
QK52	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
QK53	1	1	1	HD10003020	Diode 2OA90
QK54	1	1	1	HD10003020	Diode 2QA90
QK55	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
QK56	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
QK57	1	1	1	HT323902A0	Transistor 2SC2390 (R or S)
					PK51-COIL
LK51	1	1	1	LO71010070	OSC Coil
					PM01-POWER TRANSISTOR CIRCUIT BOARD
PM01	1	1	1	YF22190012	P.W. Board, Power Transistor
	1	1	1	ZZ22190010	P.W. Board Assembly
					PM01-SEMICONDUCTORS
QM01	1	1	1	HV00007080	Varistor STV-4H
QM02	1	1	1	HT315682B0	Transistor 2SC1568 (R or S)
QM03	1	1	1	HT406103C0	Transistor 2SD610 (S, R, Q)
QM04	1	1	1	HT206303C0	Transistor 2SB630 (S.R.Q)
QM05	1	1	1	HT405553B0	Transistor 2SD555 (S, Q, R)
QM06	1	1	1	HT405553B0	Transistor 2SD555 (S, Q, R)
QM07	1	1	1	HT405553B0	Transistor 2SD555 (S, Q, R)
QM08	1	1	1	HT206003B0	Transistor 2SB600 (S, Q, R)
QM09	1	1	1	HT206003B0	Transistor 2SB600 (S, Q, R)
QM10	1	1	1	HT206003B0	Transistor 2SB600 (S, Q, R)
QM11	1	1	1	HT405553B0	Transistor 2SD555 (S, Q, R)
QM12	1	1	1	HT206003B0	Transistor 2SB600 (S, Q, R)
					PM01-PLUG
JM01	1	1	1	YP06001340	Plug, (4P)
JM02	1	1	1	YP06001340	Plug, (4P)
JM03	1	1	1	YP06001330	Plug, (8P)
JM04	1	1	1	YJ06001380	Jack, (3P)
JM05	1	1	1	YJ06001380	Jack, (3P)
JM06	1	1	1	YJ06001380	Jack, (3P)

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PN01-AUDIO MUTING CIRCUIT BOARD
PN01	1	1	1	YA22180510	P.W. Board, Audio Muting
	1	1	1	ZZ24761510	P.W. Board Assembly
					PN01-CAPACITORS
CN01	1	1	1	EA47700690	Elect 470μF 6.3V
					PN01-RESISTORS (All Resistors are ±5% and ¼W)
RN01	1	1	1	RT05334140	330KΩ
RN02	1	1	1	RT05750140	75Ω
RN03	1	1	1	RT05223140	22KΩ
RN04	1	1	1	RT05223140	22KΩ
RN05	1	1	1	GA05242010	2.4KΩ 1W
RN06	1	1	1	RT05473140	47KΩ
					PN01-SEMICONDUCTORS
QN01	1	1	1	HT406673A0	Transistor 2SD667A (B.C.D)
QN02	1	1	1	HD20005010	Diode W06B
					PN01-MISCELLANEOUS
JN01	1	1	1	YP10001130	Plug
JN02	1	1	1	YP10001130	Plug
JN07	1	1	1	YP10001130	Plug
LN01	1	1	1	LY20480020	Rellay
					PR01-TAPE/MONITOR CIRCUIT BOARD
PR01	1	1	1	YF22190022	P.W. Board, Tape/Monitor
	1	1	1	ZZ22190020	P.W. Board Assembly
					PR50-BUFFER AMP. CIRCUIT BOARD
PR50	1	1	1	YF22190030	P.W. Board, Buffer Amp.
	1	1	1	ZZ22190030	P.W. Board Assembly
RR51	1	1	1	GD05102140	Resistor 1KΩ ±5% ¼W
RR52	1	1	1	RA04720060	Trimming Resistor 4.7KΩ (B)
QR51	1	1	1	HC10013060	IC μPA63H
JR51	1	1	1	YP06000570	Plug, (3P)
					PS01-SCOPE DSPY CIRCUIT BOARD
PS01	1	1	1	YK22191414	P.W. Board, Scope Dspy
	1	1	1	ZZ22191210	P.W. Board Assembly
					PS01-CAPACITORS
CS01	1	1	1	DF17473050	Film 0.047μF ±20%
CS02	1	1	1	EA10601690	Elect 10μF 16V
CS03	1	1	1	EE33405040	Elect 0.33μF 50V
CS04	1	1	1	EE33405040	Elect 0.33μF 50V

- (U): for U.S.A.
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REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PS01-RESISTORS (All Resistors are ±5% and ¼W)
RS01	1	1	1	RT05103140	10KΩ
RS02	1	1	1	RT05100140	10Ω
RS03	1	1	1	RT05221140	220Ω
RS04	1	1	1	RT05334140	330KΩ
RS05	1	1	1	RT05473140	47KΩ
RS06	1	1	1	RT05473140	47KΩ
RS07	1	1	1	RT05224140	220KΩ
RS08	1	1	1	RT05304140	300KΩ
RS09	1	1	1	RT05304140	300KΩ
RS10	1	1	1	RT05473140	47KΩ
					PS01-MISCELLANEOUS
JS01	1	1	1	YP06001350	Plug, (10P)
JS02	1	1	1	YP06001290	Plug, (8P)
JS03	1	1	1	YP06001050	Plug, (5P)
JS04	1	1	1	YP06001050	Plug, (5P)
JS05	1	1	1	YP06001040	Plug, (3P)
JS06	1	1	1	YP06000570	Plug, (3P)
JS07	1	1	1	YP06000580	Plug, (5P)
SS01	1	1	1	SP04080020	Push Switch
					PT01-FILTER SWITCH CIRCUIT BOARD
PT01	1	1	1	YK22190223	P.W. Board, Filter Switch
	1	1	1	ZZ22192020	P.W. Board Assembly
					PT01-CAPACITORS
CT01	1	1	1	DF15104010	Film 0.1μF ±5%
CT02	1	1	1	DF15104010	Film 0.1μF ±5%
CT03	1	1	1	DF15104010	Film 0.1μF ±5%
CT04	1	1	1	DF15104010	Film 0.1μF ±5%
CT05	1	1	1	DF15104010	Film 0.1μF ±5%
CT06	1	1	1	DF15104010	Film 0.1μF ±5%
CT07	1	1	1	DF15152010	Film 0.0015μF ±5%
CT08	1	1	1	DF15152010	Film 0.0015μF ±5%
CT09	1	1	1	DF15222010	Film 0.0022μF ±5%
CT10	1	1	1	DF15222010	Film 0.0022μF ±5%
CT11	1	1	1	DF17224010	Film 0.22μF ±20%
CT12	1	1	1	DF17224010	Film 0.22μF ±20%
CT13	1	1	1	DD15391010	Ceramic 390pF ±5%
CT14	1	1	1	DD15391010	Ceramic 390pF ±5%
CT15	1	1	1	DD11050010	Ceramic 5pF ±0.25pF
CT16	1	1	1	DD11050010	Ceramic 5pF ±0.25pF
CT17	1	1	1	DF65301010	Film 300pF ±5%
CT18	1	1	1	DF65301010	Film 300pF ±5%
CT19	1	1	1	DF15223010	Film 0.022μF ±5%
CT20	1	1	1	DF15223010	Film 0.022μF ±5%

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
CT21	1	1	1	EE10602540	Elect 10μF 25V
CT22	1	1	1	EE10602540	Elect 10μF 25V
CT23	1	1	1	EA10701690	Elect 100μF 16V
CT24	1	1	1	EA10701690	Elect 100μF 16V
CT25	1	1	1	DF16153010	Film 0.015μF ±10%
					PT01-RESISTORS (All Resistors are ±5% and ¼W)
RT01	1	1	1	GD05104140	100KΩ
RT02	1	1	1	GD05104140	100KΩ
RT03	1	1	1	GD05244140	240KΩ
RT04	1	1	1	GD05244140	240KΩ
RT05	1	1	1	GD05113140	11KΩ
RT06	1	1	1	GD05113140	11KΩ
RT07	1	1	1	GD05225140	2.2MΩ
RT08	1	1	1	GD05225140	2.2MΩ
RT09	1	1	1	GD05113140	11KΩ
RT10	1	1	1	GD05113140	11KΩ
RT11	1	1	1	GD05113140	11KΩ
RT12	1	1	1	GD05113140	11KΩ
RT13	1	1	1	GD05513140	51KΩ
RT14	1	1	1	GD05513140	51KΩ
RT15	1	1	1	GD05225140	2.2MΩ
RT16	1	1	1	GD05225140	2.2MΩ
RT17	1	1	1	GD05681140	680Ω
RT18	1	1	1	GD05681140	680Ω
RT19	1	1	1	GD05113140	11KΩ
RT20	1	1	1	GD05113140	11KΩ
RT21	1	1	1	GD05392140	3.9KΩ
RT22	1	1	1	GD05392140	3.9KΩ
RT25	1	1	1	GD05274140	270KΩ
RT26	1	1	1	GD05274140	270KΩ
RT27	1	1	1	GD05301140	300Ω
RT28	1	1	1	GD05301140	300Ω
RT29	1	1	1	GD05393140	39KΩ
RT30	1	1	1	GD05393140	39KΩ
RT31	1	1	1	GD05223140	22KΩ
RT32	1	1	1	GD05223140	22KΩ
RT33	1	1	1	GD05102140	1KΩ
RT34	1	1	1	GD05102140	1KΩ
RT35	1	1	1	GD05334140	330KΩ
RT36	1	1	1	GD05334140	330KΩ
RT39	1	1	1	GD05151140	150Ω
RT40	1	1	1	GD05151140	150Ω

- (U): for U.S.A.
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REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PT01-SEMICONDUCTORS
QT01	1	1	1	HT316812A0	Transistor 2SC1681 (GR or BL)
QT02	1	1	1	HT316812A0	Transistor 2SC1681 (GR or BL)
QT03	1	1	1	HT316812A0	Transistor 2SC1681 (GR or BL)
QT04	1	1	1	HT316812A0	Transistor 2SC1681 (GR or BL)
QT05	1	1	1	HT108412A0	Transistor 2SA841 (GR or BL)
QT06	1	1	1	HT108412A0	Transistor 2SA841 (GR or BL)
QT07	1	1	1	HF200300E0	F.E.T. 2SK30A
QT08	1	1	1	HF200300E0	F.E.T. 2SK30A
					PT01-MISCELLANEOUS
JT01	1	1	1	YP06000340	Plug, (3P)
JT02	1	1	1	YP06000340	Plug, (3P)
JT03	1	1	1	YP06000700	Plug, (9P)
JT04	1	1	1	YP06000580	Plug, (5P)
JT05	1	1	1	YP06001050	Plug, (5P)
ST01	1	1	1	SP02050030	Push Switch
					PU01-DUBBING JACK CIRCUIT BOARD
PU01	1	1	1	YK22191424	P.W. Board, Dubbing Jack
	1	1	1	ZZ22191220	P.W. Board Assembly
					PU01-JACK
JU01	1	1	1	YJ01001040	Jack
JU02	1	1	1	YJ01001050	Jack
JU03	1	1	1	YJ06001350	Jack, (10P)
JU04	1	1	1	YJ06001370	Jack, (4P)
JU05	1	1	1	YJ06001370	Jack, (4P)
JU06	1	1	1	YP06000570	Plug, (3P)
JU07	1	1	1	YP06000570	Plug, (3P)
					PW01-SPEAKER SWITCH CIRCUIT BOARD
PW01	1	1	1	YD22180050	P.W. Board, Speaker Switch
	1	1	1	ZZ22180050	P.W. Board Assembly
					PW01-RESISTORS
RW01	1	1	1	GS10331070	330Ω ±10% 7W
RW02	1	1	1	GS10331070	330Ω ±10% 7W
RW03	1	1	1	GJ05151020	150Ω ±5% 2W
RW04	1	1	1	GJ05151020	150Ω ±5% 2W
					PW01-MISCELLANEOUS
JW01 ~ JW05	5	5	5	YP10001130	Plug
SW01	1	1	1	SP04020180	Push Switch
WW01	1	1	1	YB00630010	Connective Cord
WW02	1	1	1	YB00630020	Connective Cord

REF. DESIG.	Q'TY U	C	N	PART NO.	DESCRIPTION
					PX01-PEAK IND. CIRCUIT BOARD
PX01	1	1	1	YK22190210	P.W. Board, Peak Ind.
	1	1	1	ZZ24761210	P.W. Board Assembly
					PX01-CAPACITORS
CX01	1	1	1	EA47505090	Elect 4.7μF 50V
EX02	1	1	1	EA47505090	Elect 4.7μF 50V
CX03	1	1	1	EA10701090	Elect 100μF 10V
CX04	1	1	1	EA47601690	Elect 47μF 16V
CX05	1	1	1	EA10610010	Elect 10μF 100V
CX06	1	1	1	EA22601090	Elect 22μF 10V
					PX01-RESISTORS (All Resistors are ±5% and ¼W)
RX01	1	1	1	RT05103140	10KΩ
RX02	1	1	1	RT05103140	10KΩ
RX03	1	1	1	RT05303140	30KΩ
RX04	1	1	1	RT05303140	30KΩ
RX05	1	1	1	RT05393140	39KΩ
RX06	1	1	1	RT05393140	39KΩ
RX07	1	1	1	RT05103140	10KΩ
RX08	1	1	1	RT05103140	10KΩ
RX09	1	1	1	RT05222140	2.2KΩ
RX10	1	1	1	RT05222140	2.2KΩ
RX11	1	1	1	RT05243140	24KΩ
RX12	1	1	1	RT05243140	24KΩ
RX13	1	1	1	RT05473140	47KΩ
RX14	1	1	1	RT05473140	47KΩ
RX15	1	1	1	RT05473140	47KΩ
RX16	1	1	1	RT05473140	47KΩ
RX17	1	1	1	RT05753140	75KΩ
RX18	1	1	1	RT05753140	75KΩ
RX19	1	1	1	RT05753140	75KΩ
RX20	1	1	1	RT05753140	75KΩ
RX21	1	1	1	RT05223140	22KΩ
RX22	1	1	1	RT05223140	22KΩ
RX23	1	1	1	RT05511140	510Ω
RX24	1	1	1	RT05511140	510Ω
RX25	1	1	1	RT05753140	75KΩ
RX26	1	1	1	RT05753140	75KΩ
RX27	1	1	1	RT05512140	5.1KΩ
RX28	1	1	1	RT05512140	5.1KΩ
RX29	1	1	1	RT05822140	8.2KΩ
RX30	1	1	1	RT05822140	8.2KΩ
RX31	1	1	1	RT05104140	100KΩ
RX32	1	1	1	RT05104140	100KΩ
RX33	1	1	1	GJ05392020	3.9KΩ 2W
RX34	1	1	1	GJ05392020	3.9KΩ
RX35	1	1	1	RT05332140	3.3KΩ
RX36	1	1	1	RT05753140	75KΩ
RX37	1	1	1	RT05822140	8.2KΩ
RX38	1	1	1	RT05104140	100KΩ
RX39	1	1	1	GJ05472020	4.7KΩ 2W
RX40	1	1	1	RT05472140	4.7KΩ
RX43	1	1	1	GJ05122020	1.2KΩ 2W
RX44	1	1	1	RT05273140	27KΩ
RX45	1	1	1	RT05274140	270KΩ

[EUROPEAN MODEL ONLY]

AUDIO SECTION

POWER OUTPUT, DIN, 4 OHM, PER CHANNEL	**420 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 4 OHM, PER CHANNEL	**400 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	**0.06%**
I.M. DISTORTION AT RATED POWER OUTPUT (250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	**0.1%**
POWER BANDWIDTH	**5 Hz – 35 kHz**

POWER OUTPUT, DIN, 8 OHM, PER CHANNEL	**340 W**
POWER OUTPUT, FTC AMERICAN STANDARDS, 8 OHM, PER CHANNEL	**300 W**
TOTAL HARMONIC DISTORTION AT RATED POWER OUTPUT	**0.03%**
I.M. DISTORTION AT RATED POWER OUTPUT (250 Hz AND 8 kHz MIXED, AMPLITUDE RATIO 4:1)	**0.1%**
POWER BANDWIDTH	**5 Hz – 35 kHz**

	(40 Hz)	(1 kHz)	(12.5 kHz)
DAMPING FACTOR 8 OHM	40	40	30

Frequency Response	
Phono (RIAA)	±0.2 dB
Aux (±1 dB)	10 Hz – 60 kHz
Main In (±1 dB)	10 Hz – 60 kHz
Signal-to-Noise Ratio	
Phono	80 dB
Aux	95 dB
Main In	70 dB
Input Terminals	
Phono: Input Impedance	47 k ohms
Input Capacitance	100 pF
Input Sensitivity	1.8 mV
Overload Margin	41 dB
Aux: Input Impedance	55 k ohms
Input Sensitivity	180 mV
Overload Margin	60 dB
Phono Equivalent Input Noise	1.0 μV
Phono Dynamic Range (Ratio of input overload to equivalent input noise)	106 dB
Channel Balance (0 to −40 dB/40 Hz −16 kHz)	
Phono	2.5 dB
Aux	2.0 dB
Main In	1.0 dB
Interchannel Crosstalk	
Phono 1 kHz	43 dB
Aux 1 kHz	45 dB
Tape 1 kHz	50 dB
Main In 1 kHz	55 dB
Intersource Crosstalk (Worst Point)	
1 kHz	60 dB
Output Voltage, 1 kHz	
Tape Out	775 mV
Pre Out	1.5 V
Output Impedance, 1 kHz	
Tape Out	500 ohms
Pre Out	350 ohms
Headphone Jack Load Impedance	4 ohms or more (200, 400 ohms acceptable)

FM TUNER SECTION

Frequency Range	87.5 – 108 MHz
Usable Sensitivity 40 kHz Deviation, 98 MHz	
Mono, S/N 26 dB	1.2 μV
Stereo, S/N 46 dB	34 μV

Alternate Channel Selectivity, 98 MHz ±300 kHz	72 dB
Image Response Rejection, 98 MHz	120 dB
IF Rejection, 98 MHz	110 dB
Spurious Response Rejection, 98 MHz	110 dB
AM Suppression, 98 MHz	65 dB
Signal-to-Noise Ratio, 98 MHz	
Unweighted: Mono	73 dB
Stereo	70 dB
Weighted: Mono	78 dB
Stereo	71 dB
Pilot Signal & Subcarrier Rejection	
19 kHz	65 dB
38 kHz	75 dB
Total Harmonic Distortion, 98 MHz	
Mono	0.08%
Stereo	0.1%
Frequency Response	
30 Hz – 15 kHz	+0.2, –1.0 dB
Separation	
Stereo	47 dB
Channel Balance	0.1 dB
Output Voltage, 1 kHz	910 mV
Output Impedance, 1 kHz	600 ohms
Acceptable Load Impedance, 1 kHz	47 k ohms
Antenna Terminals	
Balanced	300 ohms
Unbalanced	75 ohms

AM TUNER SECTION

Frequency Range	515 – 1650 kHz
Usable Sensitivity (26 dB S/N 30% Mod., 1 MHz)	15 μV
Selectivity, 1 MHz ±9 kHz	27 dB
Image Rejection, 1 MHz	80 dB
IF Rejection, 1 MHz	50 dB
Spurious Response Rejection, 1 MHz	90 dB
Signal-to-Noise Ratio, 1 MHz	55 dB
Frequency Response, 1 MHz ±3 dB	40 Hz – 2.3 kHz
Total Harmonic Distortion, 1 MHz	0.4%

GENERAL

Power Requirements	220 V AC, 50 Hz
	(E and N versions are featuring an external voltage selector for use on 110/120/240 V. Other versions can be converted by a qualified technician to operate on 110/120/240 V.)
Power Consumption at Rated Output, Both Channels Operating	1100W± 100W
Idling Power	130W± 50W
Semiconductor Complement	
Integrated Circuits	11
Transistors	123
Diodes	100
Field Effect Transistors	12
Dimensions	
Panel Width	19-1/4" (490 mm)
Panel Height	7" (177 mm)
Depth	17-1/4" (438 mm)
Weight	
Unit alone	60.3 lbs (30.0 kg)
Packed for shipment	64.7 lbs (32.0 kg)